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STANLEY HARDWARE

Catalog 16

TRADE STANLEY MARK

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THE STANLEY WORKS

NEW BRITAIN, CONNECTICUT, U. S. A.

Sales Offices and Warehouses

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100 Lafayette Street

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67 West Kinzie Street

Sales Offices

SAN FRANCISCO LOS ANGELES SEATTLE CLEVELAND

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STANLEY
S.W.

Introduction

In presenting this catalog, we call your attention to the condensed arrangement used, which conveniently groups together the various classes of goods.

The different lines of butt hinges, as far as possible, are listed in classes, and are so arranged that one opening of the book will show a complete line; an advantage, we believe, both to buyer and salesman. The difference between the various articles of the same class as regards material, finish, weight, etc., is clearly shown in the text and tables. Pages in the forepart of the catalog have been devoted to certain various features such as grades of butt hinges, materials obtainable, tips and pins, ball bearings, template and non-template butt hinges, etc. This has been done to avoid lengthy descriptions on each page.

The illustrations are new and correct as to mechanical details, applications, etc. We can furnish our customers electrotypes of any of the articles shown.

We call your particular attention to the recent addition of a new line of hospital type butt hinges, prison hinges, tubular steel door hinges, H and H-L hinge plates, "Roll-Up," "Swing-Up," Folding Sliding garage hardware, casement window hardware, wardrobe hardware, and closet hardware.

Stanley Hardware is sold in every civilized country and stocks are carried by all leading jobbers and dealers in hardware.

The design of many of the articles illustrated originated in suggestions from our customers, which we are always pleased to receive.

It is the policy of this company to furnish the highest quality of goods at the lowest price possible, quality considered first. This policy, which our company has always pursued during the ninety-four years we have been in business, we feel is appreciated by our customers.

We are aware that you are primarily interested in our product rather than in our history, but information regarding our organization may be of some interest to you.

The Stanley Works began business in New Britain, Connecticut, in 1843, manufacturing a line of door bolts. In 1852 the company was incorporated under the present name and at that time a line of strap and tee hinges was added. In 1866 the manufacture of wrought iron butt hinges was begun.

In 1871, The Stanley Works was responsible for a great step forward in the art of making hardware. In that year, this company began the development of the process of cold rolling steel. It was the first company in the Cold Rolled Steel field and today operates its own Open Hearth Furnaces and Hot and Cold Rolling Mills. All steel used in the manufacture of Stanley products is made especially for its intended purpose.

Lines which have been added to these original products from time to time are wrought bronze and steel ball bearing and plain bearing butt hinges, shelf brackets, thumb latches, chest handles, corner irons, screen hardware, garage hardware, blind hardware, "Roll-Up" and "Swing-Up" doors and hardware, furniture hardware, box strapping, corrugated fasteners, etc.

After ninety-four years of consistent growth, The Stanley Works is the largest manufacturer of wrought hardware in the world. This uninterrupted growth would have been impossible without the loyal assistance and cooperation of thousands of valued friends in the hardware, building and architectural fields.

In addition to the Hardware Division located in New Britain, Connecticut, The Stanley Works embraces the following:

The Stanley Rule & Level Plant, New Britain, Connecticut, manufacturers of a complete line of carpenters' and mechanics' tools.

The Stanley Electric Tool Division, New Britain, Connecticut, manufacturers of portable electric tools.

Open Hearth Furnaces and Steel Rolling Mills at Bridgeport, Connecticut.

Hydro-electric Power Plant at Rainbow, Connecticut.

Also factories at Niles, Ohio; Newark, New Jersey; Plantsville, Connecticut; South Shaftsbury, Vermont; Pulaski, Tennessee; Hamilton, Ontario, Canada, and Roxton Pond, Quebec, Canada.

The trade-marks, shown below, our labels, and many of our class numbers are fully protected by registration in the United States and foreign countries. Infringers will be prosecuted.

S.W. STANLEY STANLEY S.W.

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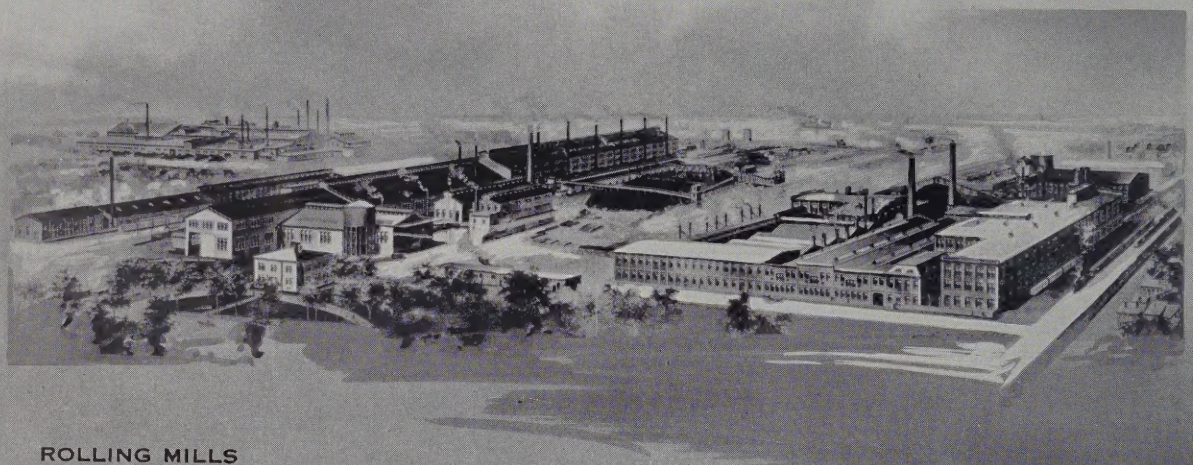
The Stan



ROLLING MILLS
BRIDGEPORT, CONN.

MAIN OFFICES AND HARDWARE

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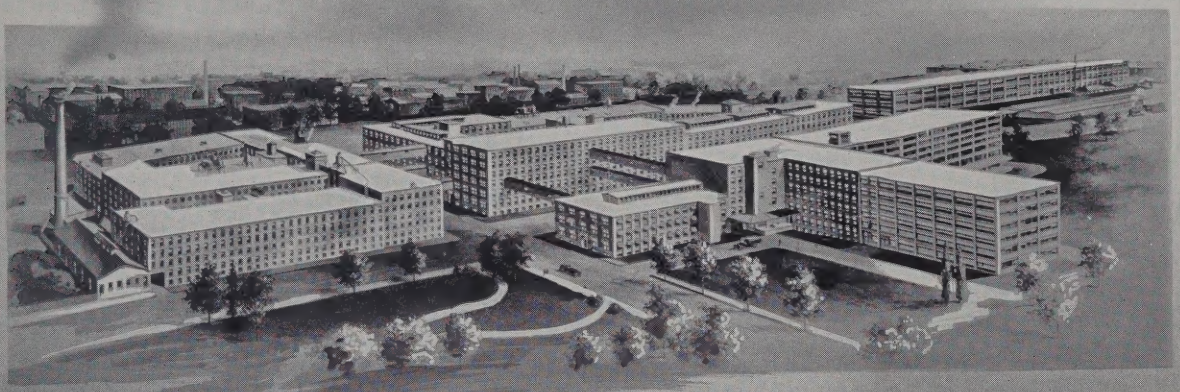
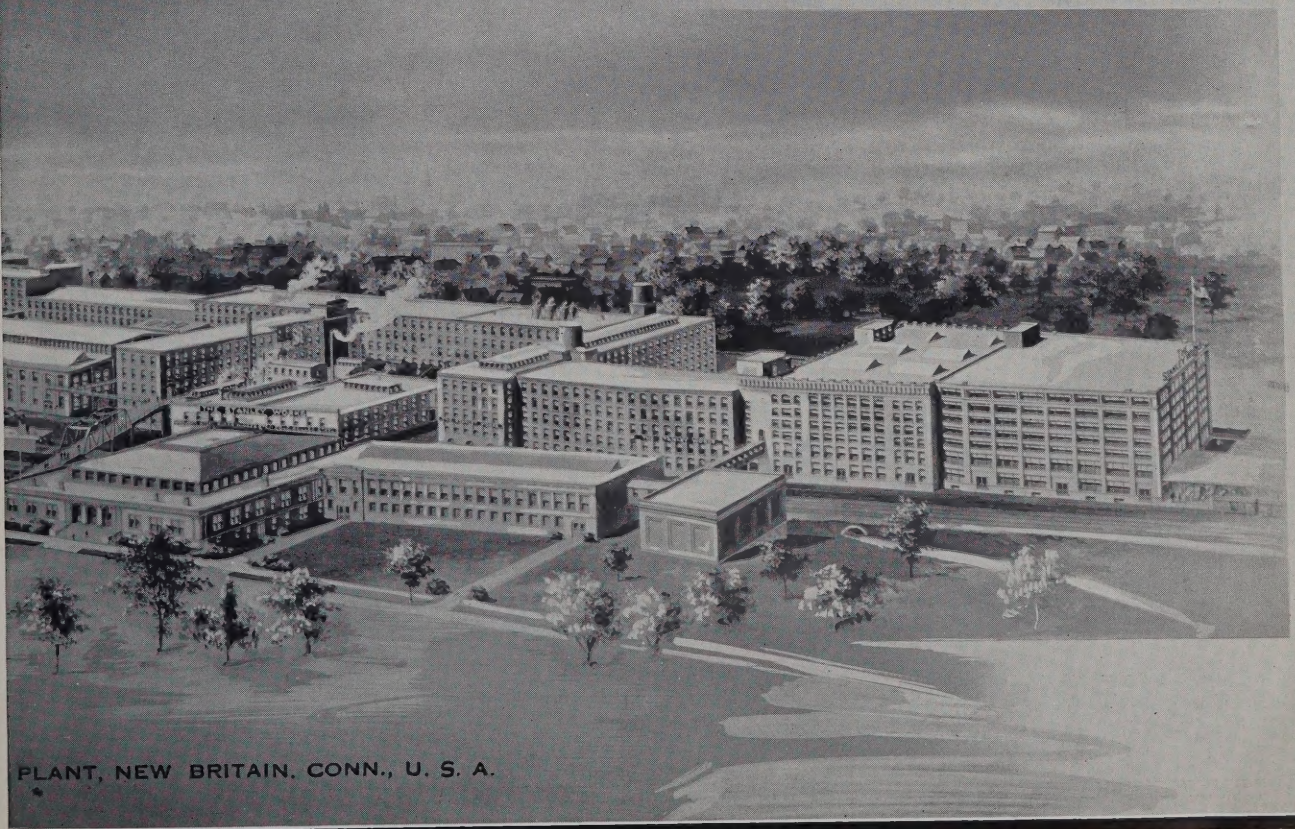


THE STANLEY RULE & LEVEL PLANT
NEW BRITAIN, CONN.



PLANT, NEW BRITAIN, CONN., U. S. A.

Ball Bearing Butt Hinges

Recommended for heavy doors, doors receiving high frequency service and doors where silent operation is required. They should always be used on doors equipped with door closers and on hollow metal doors.

There is no wearing down of the butt hinge under the severest strain, no creaking of the door, and no need of oiling, thereby disfiguring finish and gathering dust. Doors equipped with ball bearing butt hinges swing easily and noiselessly.

The ball bearings are permanently attached to the knuckles so that they cannot be lost when the leaves are taken apart.

Wrought bronze or brass ball bearing butt hinges can be obtained with pins and ball bearings made of stainless steel.

Metals Obtainable

Ball bearing butt hinges are obtainable in two weights—extra heavy and regular (plain bearing butt hinges in regular weight only) in the following metals:

Wrought Bronze
Wrought Brass
Wrought White Bronze
Wrought Monel
Wrought Steel
Wrought Stainless Steel
***Wrought High Strength Aluminum Alloy**

The metals used in making Stanley Wrought Butt Hinges are cold rolled, which toughens and hardens the metal.

*Door butt hinges made of aluminum furnished only ball bearing.
*For aluminum butt hinges there is available an electrolytic method of applying an entirely new protective and decorative coating in either a plain finish or in a large variety of highly lustrous colors.

Wrought Bronze or Brass Butt Hinges

Recommended for Interior or Exterior Doors

They are polished and highly finished. The inner edges of the leaves are beveled to make close-fitting joints. The outer edges are true and the corners are square. The pins are made of cold-drawn steel wire, cadmium plated, and the shoulders of the tips fit flush with the barrel.

Butt hinges made of regular weight wrought bronze or brass are obtainable with two types of bearings to counteract vertical wear: namely, ball bearings and steel bushings. Extra heavy weight butt hinges are furnished only with ball bearings. Steel bushed butt hinges are recommended only for doors receiving infrequent service.

Highly Polished and Heavily Plated Steel Butt Hinges

Recommended for Interior Doors

Butt hinges described as highly polished and heavily plated are made along the lines of the wrought bronze or brass butt hinges. The steel is highly polished, then given a heavy plating of copper upon which is placed a heavy plating of the finish desired. This process insures a high finish. The inner edges of the leaves are beveled to make close-fitting joints. The outer edges are true and the corners are square. The shoulders of the tips fit flush with the barrel.

Polished and Plated Steel Butt Hinges

Recommended for Interior Doors

Butt hinges described as polished and plated do not have the refinements of those which are described as highly polished and heavily plated. The steel is polished, then plated in the finish desired.

Planished and Plated Steel Butt Hinges

Recommended for Interior Doors

Butt hinges described as planished and plated are for use where a good practical steel butt hinge is desired and a planished surface will meet the requirements. The steel has a fine cold rolled finish, although not wheel polished.

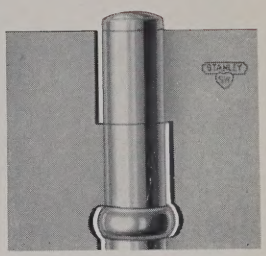
Steel Butt Hinges for Painting

The inner edges of the leaves of butt hinges having gauge of metal less than 0.090 in thickness are milled back 0.050. Butt hinges 0.090 or greater are milled back 0.090. This allows sufficient clearance so that the paint is not scraped off the barrel when the door is operated.

Furnished with a priming coat; white or colored paint can be applied to the butt hinges without additional preparation. To match natural finish woodwork or stained woodwork apply one ground coat, then varnish the same as the woodwork.

Door butt hinges for painting are equipped with button tips which fit flush with the barrel.

When desired they can be obtained cadmium plated under the priming coat.



Showing leaves milled back for paint clearance

Chromium Plating

Chromium plating is applied directly on white bronze. On other nonferrous metals, it is applied over a coating of nickel. On steel, it is applied over a coating of nickel which has been applied over a base plate of copper.

Chromium Plating Steel Hardware

Not Recommended on Steel Butt Hinges for Exterior Doors

The chromium deposit itself applied to steel hardware increases the resistance to tarnishing but offers little protection against rusting. The copper and nickel plating underneath the chromium affords some protection but for absolute assurance against rust, only nonferrous metals should be used.

On chromium plated steel butts we no longer use a cadmium base. Our experience proves that it is not a satisfactory base since it tends to cause the chromium to peel. Therefore, in place of cadmium, a base plate of copper is used. This method is in strict conformity to government requirements as listed in Federal Specifications.

Cadmium Plating

Not Recommended on Steel Plated Butt Hinges for Exterior Doors

Where steel plated hardware (except chromium finishes) is liable to rust, we recommend that the goods be first cadmium plated, then plated in the finish desired. (See reference above to chromium plated steel butt hinges.)

Cadmium finish is an electroplated coating of metallic cadmium. It is a smooth and uniformly distributed rust-resisting base. By plating parts unassembled, the cadmium protects both inside and outside of butt hinge joints.

Cadmium plating is designated by the letter "K." When ordering, insert the letter "K" before the class number and suffix the finish symbol; i.e., BBK239A.

Even though cadmium plating is the best protective coating we know of for steel plated hardware it cannot be given the same absolute guarantee against rust as nonferrous metals.

Labeling

Stanley products are quickly identified by the green box and yellow label.

All nonferrous goods can be distinguished by a red border around the yellow label and steel goods having a rust-resisting base are identified by a silver border around the yellow label.

Packing

Wrought bronze, brass and highly polished steel butt hinges are wrapped in anti-tarnish tissue paper to protect the finish. Each butt hinge, with necessary screws for each leaf in separate packages, is then again wrapped in paper.

Identification of Stanley Butt Hinges

Stanley butt hinges are plainly stamped with the trade [STANLEY] mark. The class number is stamped on the back of ball bearing butt hinges, nonferrous metal butt hinges, template butt hinges, non-template plain joint polished steel butt hinges and butt hinges for painting.

Stanley Template Butt Hinges

Conform to U. S. Government Standards

Stanley Template Butt Hinges are made exact in size and gauge of metal, and the screw holes are located accurately with the aid of a template. They will exactly fit the sinkage and screw hole location in hollow metal doors and pressed steel jambs made to similar template.

The Stanley Works' high standard of quality has a special opportunity to prove itself in the template butt hinge line. Each individual butt hinge is carefully inspected and is held within close commercial limits, which have been established through long experience and close attention to the requirements of manufacturers of metal doors and jambs.

Each template butt hinge is stamped with the class number on the back.

When an actual sample of a template butt hinge is not required, we advise the use of blueprint templates which are available on all sizes, without charge. These are drawings showing actual measurements, location and size of machine screws and gauge of metal.

Screw Packing

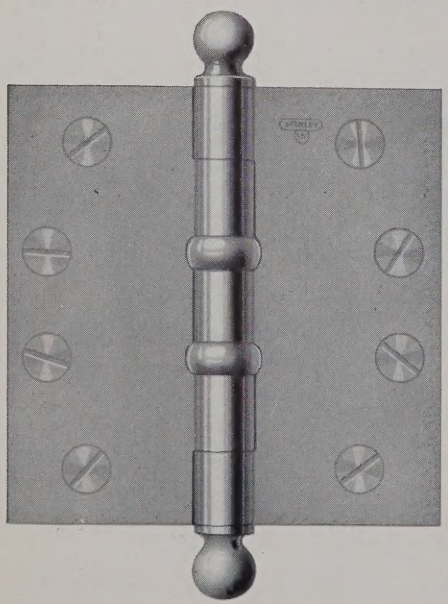
For Full Mortise Template Butt Hinges

Regularly furnished with one-half machine screws and one-half wood screws for wood doors with pressed steel jambs. When ordered for hollow metal doors with pressed steel jambs, specify "all MS."

When ordering extra screws, the class number, size and finish of the butt hinge should always be specified.

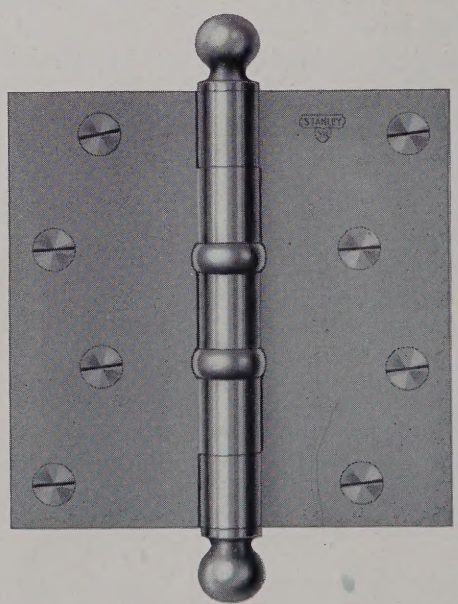
Screw Hole Locations

Template Butt Hinge



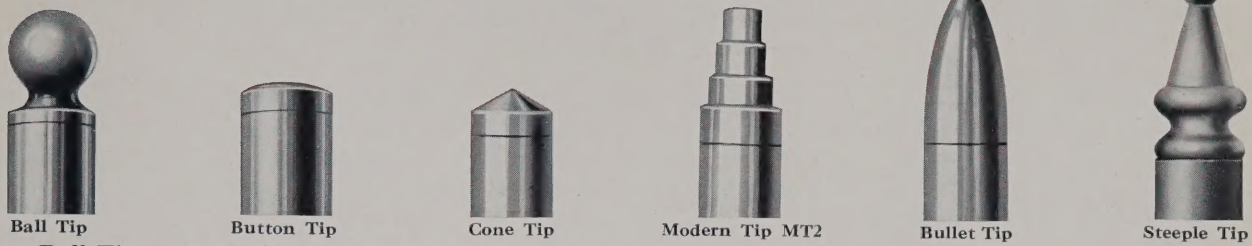
Size 4½" x 4½"

Non-Template Butt Hinge



Size 4½" x 4½"

Tips and Pins



Ball Tip | Button Tip | Cone Tip | Modern Tip MT2 | Bullet Tip | Steeple Tip

Ball Tips are standard for most butt hinges.

Button Tips are regularly furnished on butt hinges for painting, and steel butt hinges in Wrought Iron finishes, although they can be obtained on order on other butt hinges; when desired, specify "FBT."

Steeple Tips are especially suitable for butt hinges in Wrought Iron finishes, although practical for other butt hinges; when desired, specify "SST" (steel) or "BST" (brass).

Bullet Tips (symbol "BLT"), Cone Tips (symbol "CT") and Modern Tips (symbol "MT2") are furnished on order on standard door and cabinet butt hinges.

Ball and Button Tip Pins on regular weight steel butt hinges are made in one piece.

Non-Rising Pins

The non-rising pin feature for ball bearing butt hinges and plain joint highly polished steel butt hinges, size 3½" and larger, consists of a grooved pin engaging with projections in a spring bushing. A slight pressure on the top of the pin forces it down into position. The pin is free to turn under action of the door but cannot rise, as the projections in the spring bushing cling to the grooves in the pin.

All other butt hinges, described in this catalog as furnished with non-rising pins, have pins which are equipped with wings just under the tip which fit into corresponding grooves in the top knuckle. The pin being thus held in an immobile position is prevented from rising under action of the door.

With either type of non-rising pin it is possible to remove the pins whenever desired.

Non-Removable Pins

Butt hinges can be obtained with non-removable pins under the following symbols:

FSP—Fast Pin (pins spun or riveted both ends)
FTP—Fast Pin (tips driven in both ends)
***NRP—Non-Removable Pin (set screw in barrel)**
WDP—Welded Pin (for hospital butt hinges)

* Conforms to U. S. Government Specifications for exterior doors opening out.

Screws and Bolts

Showing various types of regular and special screws and bolts furnished only with Stanley products. Orders for screws and bolts only are not solicited.

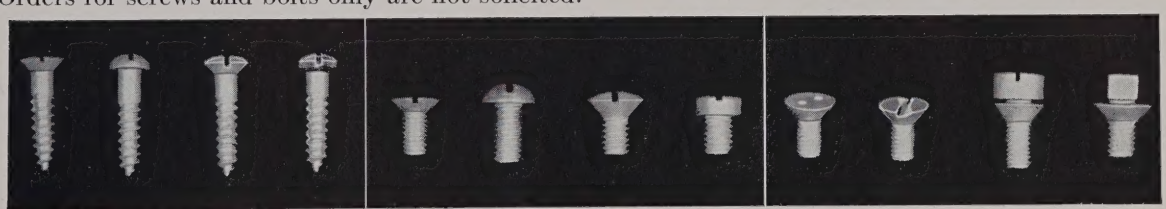
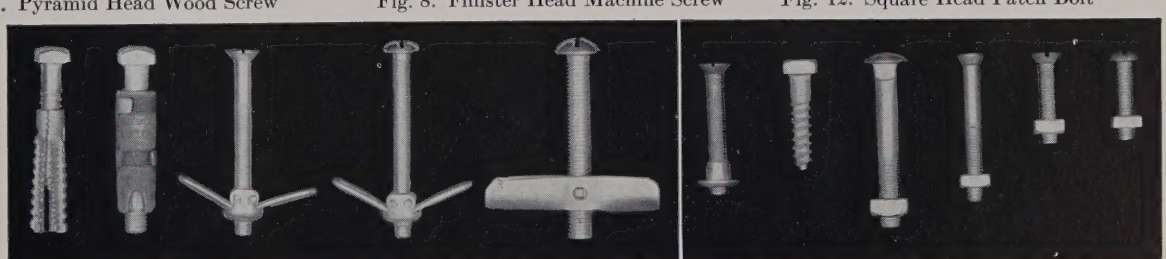


Fig.1 Fig.2 Fig.3 Fig.4 | Fig.5 Fig.6 Fig.7 Fig.8 | * Fig.9 †* Fig.10 * Fig.11 * Fig.12

Fig. 1. Flat Head Wood Screw
Fig. 2. Round Head Wood Screw
Fig. 3. Oval Head Wood Screw
Fig. 4. Pyramid Head Wood Screw

Fig. 5. Flat Head Machine Screw
Fig. 6. Round Head Machine Screw
Fig. 7. Oval Head Machine Screw
Fig. 8. Fillister Head Machine Screw

Fig. 9. Spanner Head Machine Screw
Fig. 10. One Way Slotted Head Machine Screw
Fig. 11. Round Head Patch Bolt
Fig. 12. Square Head Patch Bolt



‡ Fig.13 ‡ Fig.14 ‡ Fig.15 ‡ Fig.16 | ‡ Fig.17 Fig.18 Fig.19 | Fig.20 Fig.21 Fig.22 Fig.23

Fig. 13. Lag Screw with Expansion Shield
Fig. 14. Machine Bolt with Expansion Shield
Fig. 15. Flat Head Spring-Wing Toggle Bolt
Fig. 16. Round Head Spring-Wing Toggle Bolt

* Not carried in stock. Made only on special order.

Fig. 17. Round Head Toggle Bolt
Fig. 18. Oval Head Machine Screw with Grommet Nut
Fig. 19. Lag Screw

† Also obtainable in wood screws.

Fig. 20. Carriage Bolt
Fig. 21. Tire Bolt
Fig. 22. Flat Head Stove Bolt
Fig. 23. Round Head Stove Bolt

‡ Not carried in stock.

Specifications for Butt Hinges

For Wood Doors, Hollow Metal Doors, Kalamein or Metal Covered Doors and Transoms

Extra heavy ball bearing butt hinges should always be used on heavy doors or on doors where high frequency service is expected. (See Table 2.)

In using Table 1, whenever the door is of such a size as to call for butt hinges of regular weight, but is of such a character as to come into the high frequency classification, then extra heavy butt hinges same length and width should be substituted.

Butt hinge sizes given refer to length of joint.

Wrought Bronze Doors weigh about 50 per cent more than Steel Doors, and require extra heavy ball bearing butt hinges.

Table 1. Rules for Sizes of Butt Hinges

Doors to and including 60″ high require 2 butt hinges; over 60″ to and including 90″ require 3 butt hinges; over 90″ to and including 120″ require 4 butt hinges.

Transoms to and including 48″ wide require 2 butt hinges; over 48″ to and including 84″ require 3 butt hinges.

Door and Transom Thickness	Width of Door and Height of Transom (Inches)	Height of Butt Hinge (Inches) (Width Depends on Trim to Clear, see page 15)
DOORS		
¾″ and ⅞″ Cupboard Doors (Wood)	to 24	2½
⅞″ and 1⅛″ Screen Doors (Wood)	to 36	3
1⅛″ Doors (Wood)	to 36	3½
1⅛″ Doors (Steel)	to 36	4½
1¼″ and 1⅜″ Doors (Wood)	to 32	3½
	over 32 to 37	4
1¼″ and 1⅜″ Doors (Steel)	to 32	4½
	over 32 to 37	5
1⅜″, 1¾″ and 1⅞″ Doors (Steel or Wood)	to 32	4½
	over 32 to 37	5
	over 37 to 43	5 Extra Heavy
	over 43 to 50	6 Extra Heavy
2″, 2¼″ and 2½″ Doors (Steel or Wood)	to 43	5 Extra Heavy
	over 43 to 50	6 Extra Heavy
TRANSOMS		
1¼″ and 1⅜″ Transoms (Steel or Wood)	to 20	2½
	over 20 to 36	3
1½″, 1⅜″, 1¾″ and 1⅞″ Transoms (Steel or Wood)	to 20	3
	over 20 to 36	3½
2″, 2¼″ and 2½″ Transoms (Steel or Wood)	to 20	3½
	over 20 to 36	4

In giving the size of butt hinge, the length of joint should always be stated first.

Table 2. Expected Frequency of Operation of Doors

(Number of operations of one leaf of door, opening and closing = 1 cycle)

Type of Building and Door	Expected Frequency		
	Daily	Yearly	
Large Department Store Entrance	5,000	1,500,000	High frequency
Large Office Building Entrance	4,000	1,200,000	
Theater Entrance	*1,000	450,000	
Schoolhouse Entrance	1,250	225,000	
Schoolhouse Toilet Door	1,250	225,000	
Store or Bank Entrance	500	150,000	
Office Building Toilet Door	400	118,000	
Schoolhouse Corridor Door	80	15,000	
Office Building Corridor Door	75	22,000	
Store Toilet Door	60	18,000	
Dwelling House Entrance	40	15,000	
Dwelling House Toilet Door	25	9,000	
Dwelling House Corridor Door	10	3,600	
Dwelling House Closet Door	6	2,200	

*Performance

Specifications for Butt Hinges

For Wood Doors, Hollow Metal Doors, Kalamein or Metal Covered Doors and Transoms

On butt hinges where two dimensions are given the first always indicates length of joint (not including tips) and the second the full width when open. Thus a 6″ x 5″ butt hinge is 6″ on the joint and 5″ wide when open.

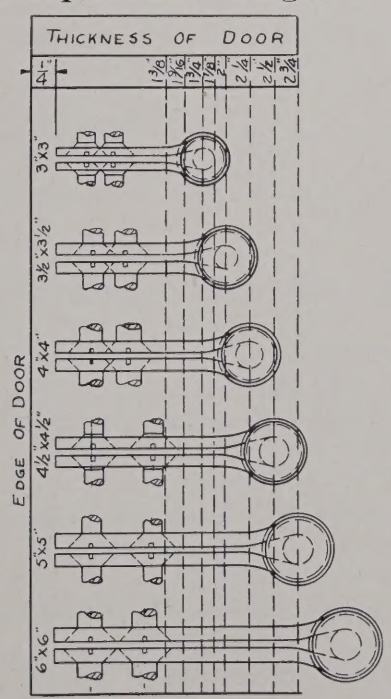
To determine the proper width of butt hinges for a door, take twice the thickness of the door, plus the thickness of the trim and deduct ½″ for doors up to 2¼″ in thickness and ¾″ for doors 2½″ to 3″ in thickness (because the leaf of the butt hinge is not mortised entirely through the thickness of the door). The result will be the proper width of the butt hinge required to allow the door to open back against the wall, or 180°. If the result is in even inches or half inches, as 4″ or 4½″, then use a butt hinge 4″ x 4″ or 4½″ x 4½″ as the case may be; but if the result should be, for example, 4¼″, then use the next larger regular size butt hinge, or 4½″ x 4½″.

The following table gives the clearances of regular stock size butt hinges for Wood and Hollow Metal Doors. The clearance is estimated on butt hinges set back ¼″ for doors up to 2¼″ and ⅜″ for doors 2½″ to 3″ in thickness.

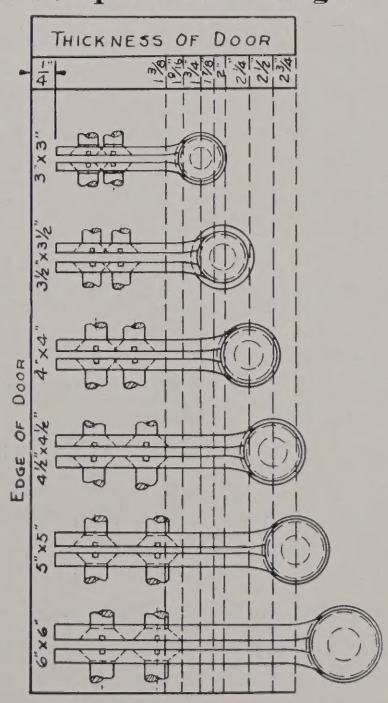
Thickness of Door (Inches)	Size of Butt Hinge (Inches)	Maximum Clearance (Inches)	Thickness of Door (Inches)	Size of Butt Hinge (Inches)	Maximum Clearance (Inches)
1⅜	3 x 3	¾	2	4½ x 4½	1
	3½ x 3½	1¼		5 x 5	1½
	4 x 4	1¾		6 x 6	2½
			2¼	5 x 5	1
1⅝	4 x 4	1⅜		6 x 6	2
	4½ x 4½	1⅞		6 x 8	4
	5 x 5	2⅜			
	6 x 6	3⅜	2½	5 x 5	¾
				6 x 6	1¾
1¾	4 x 4	1		6 x 8	3¾
	4½ x 4½	1½	2¾	6 x 6	1¼
	5 x 5	2		6 x 8	3¼
	6 x 6	3	3	6 x 6	¾
				6 x 8	2¾
1⅞	4½ x 4½	1¼		8 x 6	¾
	5 x 5	1¾		8 x 8	2¾
	6 x 6	2¾		8 x 10	4¾

Table of Butt Hinge Widths and Screw Hole Locations

Template Butt Hinges



Non-Template Butt Hinges



Scale: Half size

Underwriters' Butt Hinge Requirements

Butt hinge requirements for Underwriters' Laboratories, Inc. Labeled Swinging Hollow Metal and Metal Clad Paneled (Kalamein) Fire Doors as included in List of Inspected Fire Protection Appliances.

Classification and Location of Openings

Class "A" Situations	In Fire Walls
Class "B" Situations	In Vertical Shafts
Class "C" Situations	In Corridor and Room Partitions
Class "D" Situations	In Exterior Walls (Severe Fire Exposure)
Class "E" Situations	In Exterior Walls (Moderate Fire Exposure)
Class "D" Situations	To Exterior Fire Escapes (Severe Fire Exposure)
Class "E" Situations	To Exterior Fire Escapes (Moderate Fire Exposure)

Class A Situations: Hollow Metal Fire Doors

Full Mortise Template Butt Hinges, Class Nos. BB118, HTBB118, BB168, HTBB168
Half Mortise Template Butt Hinges, Class Nos. BB138, HTBB138, BB114, HTBB114
Full Surface Template Butt Hinges, Class Nos. BB169, HTBB169, BB129, HTBB129
Half Surface Template Butt Hinges, Class Nos. BB123, HTBB123, BB163, HTBB163

Only full mortise, half mortise, full surface or half surface template butt hinges bearing the above class numbers are approved which are made of steel, not less than 4½″ in height and 0.180″ in thickness. To be furnished with a rust-resisting base when installed on exterior doors or in situations subject to corrosive atmosphere.

Class B, C, D or E Situations: Hollow Metal or Kalamein Fire Doors

Not Over 8′ in Height

Full Mortise Template Butt Hinges, Class Nos. BB118, HTBB118, HT145, HTBB145, 146, BB146, BB147, 148, BB153, BB168, HTBB168, 174, BB174, HT174, HTBB174, 176, 178, 178½, 179, 179½, BB179, BB179½, BB199, HTBB199.

Half Mortise Template Butt Hinges, Class Nos. BB114, HTBB114, BB128, HTBB128, BB138, HTBB138, BB167, BB167½, HTBB167½.

Full Surface Template Hinges, Class Nos. BB129, HTBB129, BB131, HTBB134, BB169, HTBB169, BB170, HTBB170, BB171.

Half Surface Template Butt Hinges, Class Nos. BB123, HTBB123, HTBB132, BB133, BB163, HTBB163, BB172, HTBB172, BB173, BB173½.

Only full mortise, half mortise, full surface or half surface template butt hinges bearing the above class numbers are approved, which are made of steel not less than 4½″ in height and 0.134″ in thickness. Only full mortise bronze butt hinges not less than 4½″ in height and not less than 0.180″ in thickness are approved.

Bronze full mortise butt hinges can be used only when the jamb of the frame is provided with a steel stud and a socket in the rear edge of the door; one socket and one stud to be provided for each butt hinge.

When Olive Knuckle Template Butt Hinges are used they shall be made of steel not less than 6″ in height and 0.225″ in thickness, Class Nos. BB142, BB143.

Doors Over 8′ in Height

To have types of butt hinges described above except to be not less than 4½″ in height and 0.180″ in thickness.

Access Doors and Transoms

Not Exceeding 3′ in Height and 2′ in Width

Only full mortise, half mortise, full surface and half surface template butt hinges bearing the above class numbers are approved, which are made of steel not less than 3″ in height and 0.092″ in thickness.

Not Exceeding 5′ in Height and 3′ in Width

Butt hinges to be as described above except they shall be not less than 4″ in height and 0.130″ in thickness.

Hinge Spacing

Doors to and including 60″ high require 2 butt hinges; over 60″ to and including 90″ require 3 butt hinges; over 90″ to and including 120″ require 4 butt hinges.

Transoms to and including 48″ wide require 2 butt hinges; over 48″ to and including 84″ require 3 butt hinges.

Hand of Loose Joint Butt Hinges

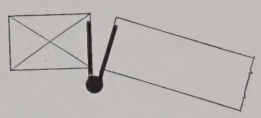
Regular Doors Opening In

Outside
Left Hand Door
Takes
Left Hand Butt Hinges

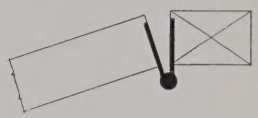
Outside
Right Hand Door
Takes
Right Hand Butt Hinges

Reversed Doors Opening Out

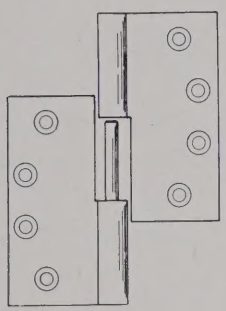
Including Closet, Cupboard and Bookcase Doors



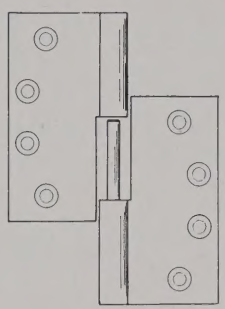
Outside
Left Hand Reverse Door
Takes
Right Hand Butt Hinges



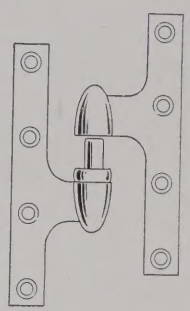
Outside
Right Hand Reverse Door
Takes
Left Hand Butt Hinges



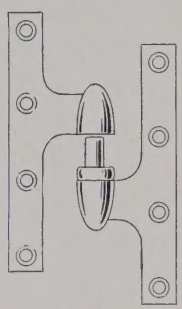
Left Hand
Loose Joint Butt Hinge



Right Hand
Loose Joint Butt Hinge



Left Hand
Olive Knuckle Butt Hinge



Right Hand
Olive Knuckle Butt Hinge

The hand of a butt hinge is determined from the outside of the door to which it is applied. The outside of a cupboard, bookcase or closet door is the room side. For other doors, the outside is usually the "push" or jamb side.

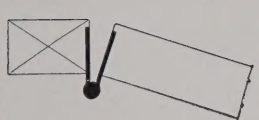
If standing outside of a door which opens ***from*** you, to the right, it takes right hand butt hinges; if to the left, it takes left hand butt hinges.

If standing outside of a door which opens ***toward*** you, to the right, it takes left hand butt hinges; if to the left, it takes right hand butt hinges.

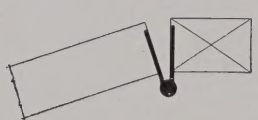
Reversed doors are doors opening out.

Casement Windows

Opening In



Room Side
Left Hand
Takes
Right Hand Butt Hinges



Room Side
Right Hand
Takes
Left Hand Butt Hinges

Opening Out

Room Side
Left Hand
Takes
Left Hand Butt Hinges

Room Side
Right Hand
Takes
Right Hand Butt Hinges

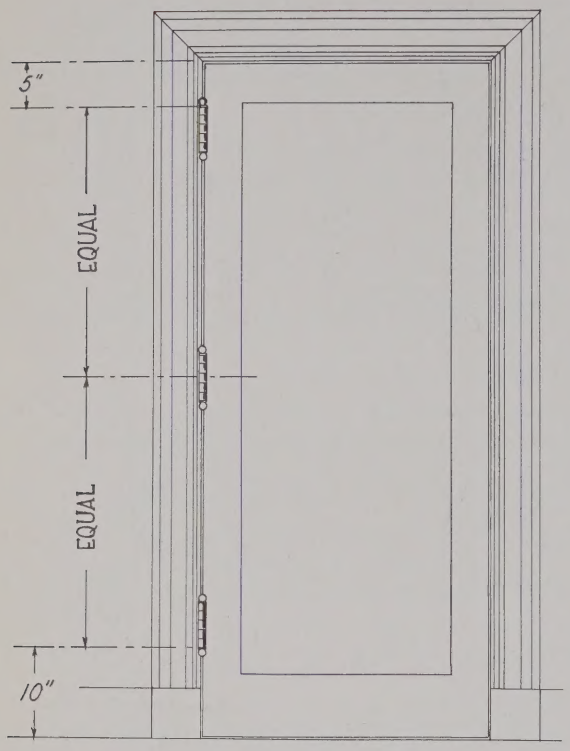
The hand of casement windows is taken from the room side.

Opening In. If the window opens to the left, it takes right hand butt hinges; if to the right, it takes left hand butt hinges.

Opening Out. If the window opens to the left, it takes left hand butt hinges; if to the right it takes right hand butt hinges.

In ordering butt hinges that are not reversible, the hand must always be specified

Location of Butt Hinges



Scale: ½″ = 1′ 0″

Suggested rule for locating butt hinges on a door:

5″ distance from jamb rabbet to top edge of top butt hinge.

10″ distance from finished floor line to bottom edge of bottom butt hinge.

Center butt hinge to be evenly spaced between other two butt hinges.

¼″ distance from face edge of door to edge of butt hinge mortise for doors up to 2¼″ and ⅜″ for doors 2½″ to 3″ in thickness.

5/16″ distance from stop to edge of butt hinge mortise frame (thus providing 1/16″ clearance between door and stop).

Height and depth of individual butt hinge mortise shall be governed by the tables on pages 14 and 15.

Three Butt Hinges to a Door

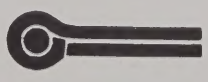
If a door is hung on two butt hinges only, each carries one-half of the load, but when three butt hinges are used, each carries approximately one-third of the load, and the strain on each butt hinge is decreased.

When three butt hinges are used, more screws are used, which greatly decreases the strain on each screw.

The top and bottom of the door cannot be thrown out of line when three butt hinges are used as it is firmly held in place by the center butt hinge. The lock edge of the door remains straight preventing trouble with the lock.

When three butt hinges are used there are more horizontal bearings in butt hinges to receive the vertical downward thrust of the load.

Swaging



Swaged
For Mortise Application

Not Swaged
(Flat on Back)
For Full Surface Application

Butt hinges are swaged for mortise application.

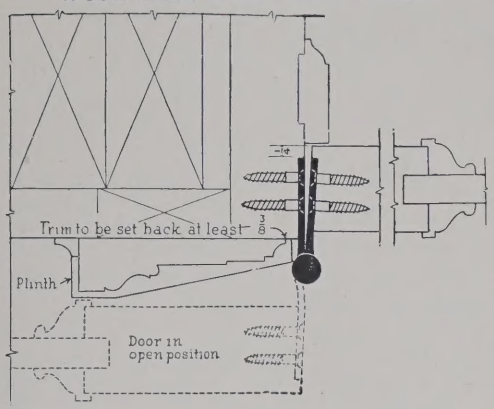
Hinges for full surface application are not swaged.

Swaging is a slight offset of the butt hinge at the barrel which permits the leaves to come closer together.

After a Stanley Butt Hinge has been swaged there is provided a standard clearance of 1/16″ between leaves when opened parallel, except on ball joint and friction butt hinges which have a clearance of 3/32″.

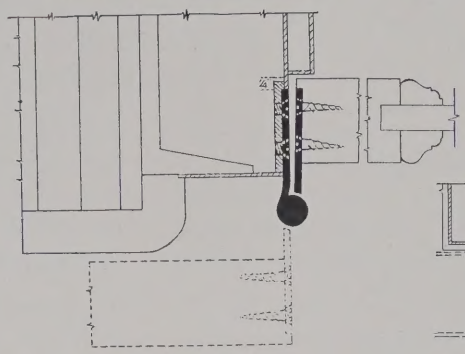
Applications

Wood Door with Wood Jamb



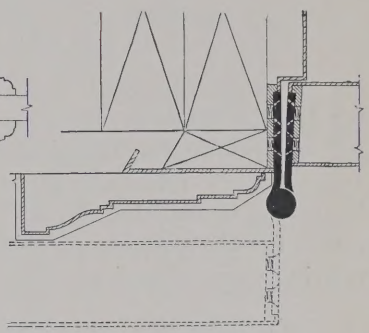
Full Mortise Non-Template Butt Hinge

Wood Door with Pressed Steel Jamb



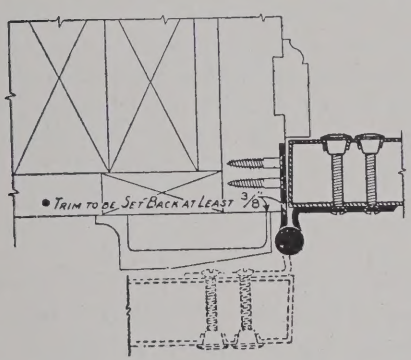
Full Mortise Template Butt Hinge

Hollow Metal Door with Pressed Steel Jamb



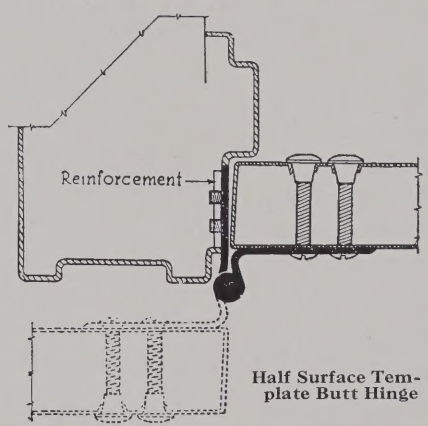
Full Mortise Template Butt Hinge

Kalamein Door with Kalamein Jamb



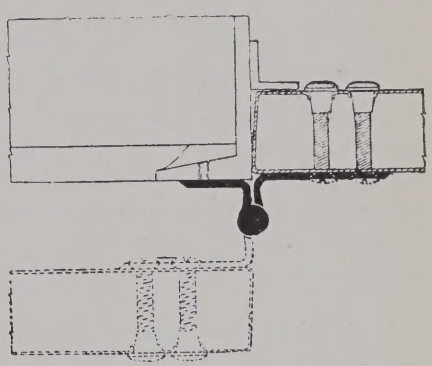
Half Surface Non-Template Butt Hinge

Kalamein Door with Pressed Steel Jamb



Half Surface Template Butt Hinge

Kalamein Door with Channel Iron Jamb



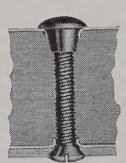
Full Surface Template Hinge

Half Surface and Full Surface Butt Hinges

In bolting the butt hinge to the kalamein door the grommet nuts draw the metal tightly into the wood core preventing buckling of the metal. They are easily applied and give a neat, finished appearance.

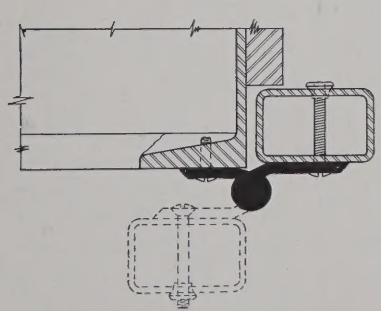
The loose pin types are reversible for right or left hand doors by unscrewing the slotted tip, reversing the pin and applying tip to the opposite end.

Door leaf and jamb leaf are measured from center of pin to outer edge of leaf. Offset is measured from back of door leaf to center of pin.



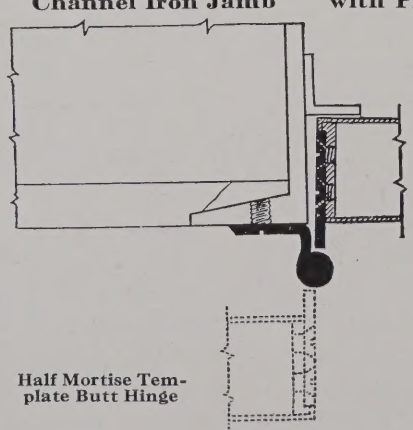
Section showing application of machine screw and grommet nut to a kalamein door

Tubular Steel Door with Channel Iron Jamb



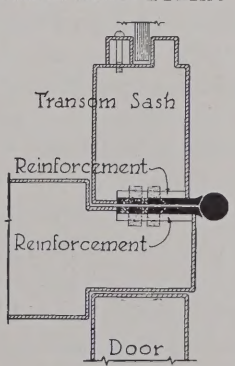
Full Surface Template Hinge

Hollow Metal Door with Channel Iron Jamb



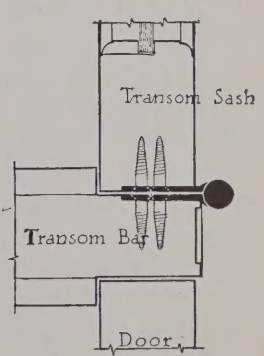
Half Mortise Template Butt Hinge

Hollow Metal Transom with Pressed Steel Frame



Full Mortise Template Transom Butt Hinge

Wood Transom with Wood Frame



Full Mortise Non-Template Transom Butt Hinge

The Relative Wearing Value of Ball Bearing and Steel Bushed Bronze Butts

By I. J. Fairchild

Mechanical Engineer, Bureau of Standards

THE Bureau of Standards of the Department of Commerce, Washington, D. C., reports a series of tests undertaken for the Builders' Hardware Committee of the Federal Specifications Board for the purpose of determining the relative wearing value of various types of butts.

Each butt was mounted singly and loaded axially in order to fix definitely the wear due to the vertical component of the load imposed by a door in actual use, since the vertical component is greater than the horizontal component, and is a major cause of unsatisfactory service.

It is admitted that the wear on the pin is frequently serious, but it was felt that a test using one component of the load could be more accurately analyzed, and, though restricted, would be of greater value than one where both components were used, or where more than one hinge was mounted on a door element.

Each hinge was inspected carefully before the test, and the amount of vertical wear was measured daily by means of a thickness gauge. The test on each hinge was continued for 1,000,000 cycles, or until the vertical clearance between a stationary knuckle and the adjacent movable knuckle below it amounted to 0.04 in.—a clearance which in actual service would usually cause serious binding of the door, or would require resetting the hinges. The hinges were mounted and run without lubrication other than that supplied with the hinges, since this appears to be the usual condition in actual service.

Since the only definite rules published for determining the proper butt for a given door recommend a nominal size of butt without regard to weight for a given size and weight of door, various weights of the same size of butts were all tested under the same load. The rules referred to recommend three 5-in. by 5-in. butts to each door leaf, weighing 75 to 100 lb. Since frequently the entire vertical component of the door due to weight is carried by one butt until sufficient wear has permitted the second and sometimes the third butt to come into bearing, each butt was given a load equal to the maximum weight of door plus a liberal overload to accelerate the test. A superimposed load of 150 lb., with the weight of necessary parts of 34 lb., brought the total load on each butt to 184 lb., which is equivalent to 84 per cent over the maximum load the butt had been designed to carry.

A total of nineteen hinges, the product of five different manufacturers, were tested, some of which were purchased on the open market, and some furnished by the makers. The moving leaf of the hinge was driven through an angle of 60 deg., at the rate of about thirty-six complete cycles per minute.

Most of the bearings were dry of lubricant at the conclusion of the run of 1,000,000 cycles in a period of approximately three weeks. However, those of similar type and weight which exhibited the least wear were the ones most efficiently lubricated.

The accompanying table, No. 1, showing the estimated frequency of operation of various classes of doors, is intended only to convey an idea of relative magnitude of the values for frequency of operation, to assist the architect, hardware man, or user in determining the proper type of butt for a given service. It is also calculated to draw the attention of the architect, dealer and user to the wide variation in frequency of operation of butts demanded in different types of buildings.

Table 1. Estimated Frequency of Operation of Hinged Doors

Number of operations of one leaf of door — opening and closing = one cycle.

Type of Building and Door	Daily	Yearly
Large Department Store Entrance	5,000	1,500,000
Large Office Building Entrance	4,000	1,200,000
Theater Entrance	*1,000	450,000
Schoolhouse Entrance	1,250	225,000
Schoolhouse Toilet Door	1,250	225,000
Store or Bank Entrance	500	150,000
Office Building Toilet Door	200	59,000
Schoolhouse Corridor Door	80	15,000
Office Building Corridor Door	75	22,000
Store Toilet Door	60	18,000
Dwelling House Entrance	40	15,000
Dwelling House Toilet Door	25	9,000
Dwelling House Corridor Door	10	3,600
Dwelling House Closet Door	6	2,200

*Per performance

Note—The ratio between daily and yearly frequency varies with the type of building.

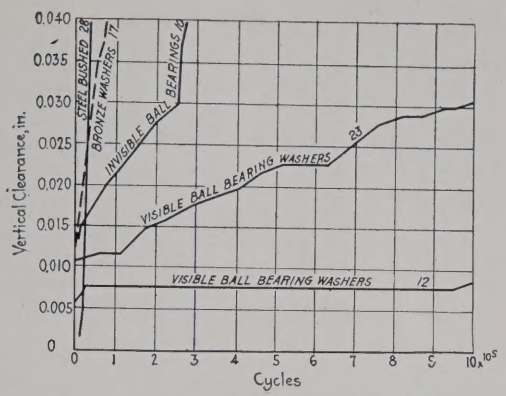


Fig. 2—Test on 5″ x 5″ ball bearing and steel bushed hinges Load = 184 lbs.

The estimated life of buildings varies according to construction, climate, etc., from twenty to seventy-five years. It seems reasonable to suppose that butts properly selected with regard to the service, properly mounted and lubricated, should need no replacement during the life of the usual building.

The curves, Fig. No. 2, and Table No. 2, obtained from the test, show a great variation in the wear of the various butts, and although the scope of the tests was small, and no definite relation can be shown between actual life and life as indicated by the tests, the results support conclusions drawn from previous tests on steel bushed butts, and were sufficiently consistent to warrant the following conclusions:

(a) Steel bushed or steel washered bronze or brass butts as now produced are relatively poor from the standpoint of wear, and are not recommended for use except on doors used moderately where extreme climatic or corrosive conditions require bronze or brass butts.

(b) In general, where conditions warrant the use of bronze or brass butts, the ball bearing type should be specified, especially for frequencies estimated to be greater than 15,000 cycles per year, since the service they give outweighs the differential in cost over the other types tested.

(c) Ball bearing washers of the visible type are preferable to the concealed type of ball bearings as now made.

(d) Extra heavy ball bearing butts should be specified for all doors where exceptional frequency of operation may be expected.

(e) Ball bearing butts should be specified where silent operation of doors is required, as in hospitals.

(f) There is little difference between the wearing qualities of steel butts with visible bronze washers and steel bushed bronze butts, but both types are decidedly inferior to ball bearing butts.

(g) While compared to the other types tested, ball bearing butts will give greater service, regardless of lubrication; nevertheless, lubrication is an important feature in all types of butts and should be provided not only as an essential part of the manufacturing process, but also throughout the life of the butt by systematic inspection.

NOTE—Published by permission of the director of the Bureau of Standards of the U. S. Department of Commerce.

Table 2. Types and Performance of Butts Tested

Hinge No.	Type	Kind of Metal	Actual Weight Per Pair Without Screws (Lbs.)	Metal Thickness (Outer Edge of Leaf) (Inch)	Clearance at Start (Inch)	Clearance at End (Inch)	Cycles Run
10	2 Invisible Ball Bearings	Cast Bronze	4.25	.205	.012	.094	375,400
11	2 Visible Ball Bearings	Wrought Steel	2.69	.142	.008	.025	1,007,200
12	2 Visible Ball Bearings	Wrought Bronze	4.00	.185	.006	.009	1,007,200*
13	2 Invisible Ball Bearings	Cast Bronze	5.00	.288	.0015	.010	1,007,200
14	2 Visible Ball Bearings	Wrought Steel	2.81	.142	.010	.018	1,007,200*
15	2 Visible Ball Bearings	Wrought Bronze	3.00	.148	.005	.035	1,007,200
16	2 Invisible Ball Bearings	Cast Bronze	4.00	.187	.024	.053	257,700
17	2 Bronze Washers	Wrought Steel	2.75	.145	.012	.046	88,700
18	2 Visible Ball Bearings	Wrought Steel	2.75	.148	.013	.023	1,038,000
19	2 Visible Ball Bearings	Wrought Steel	2.69	.147	.008	.042	524,000*
20	2 Visible Ball Bearings	Wrought Bronze	4.00	.185	.003	.004	1,005,000
21	2 Invisible Ball Bearings	Cast Bronze	5.00	.288	.0015	.006	1,005,000
22	2 Visible Ball Bearings	Wrought Bronze	3.00	.145	.010	.054	1,005,000
23	2 Visible Ball Bearings	Wrought Bronze	3.00	.146	.011	.031	1,005,000
24	2 Visible Ball Bearings	Wrought Bronze	3.00	.145	.006	.043	281,000*
25	2 Bronze Washers	Wrought Steel	2.75	.145	.007	.061	108,000
26	4 Visible Ball Bearings	Wrought Steel	3.56	.186	.008	.0395	1,007,448*
27	Steel Bushed	Cast Brass	2.88	.127	.001	.062	79,742
28	Steel Bushed	Cast Brass	2.88	.126	.001	.080	79,742

*Retaining jacket split.

Features of Stanley Butt Hinges

(Applying to BB239, BB250 and comparable types)

Squared Shoulders

Squared shoulders on the tip and pin fit flush with the barrel of the butt hinge.

Self-Lubricating Pin

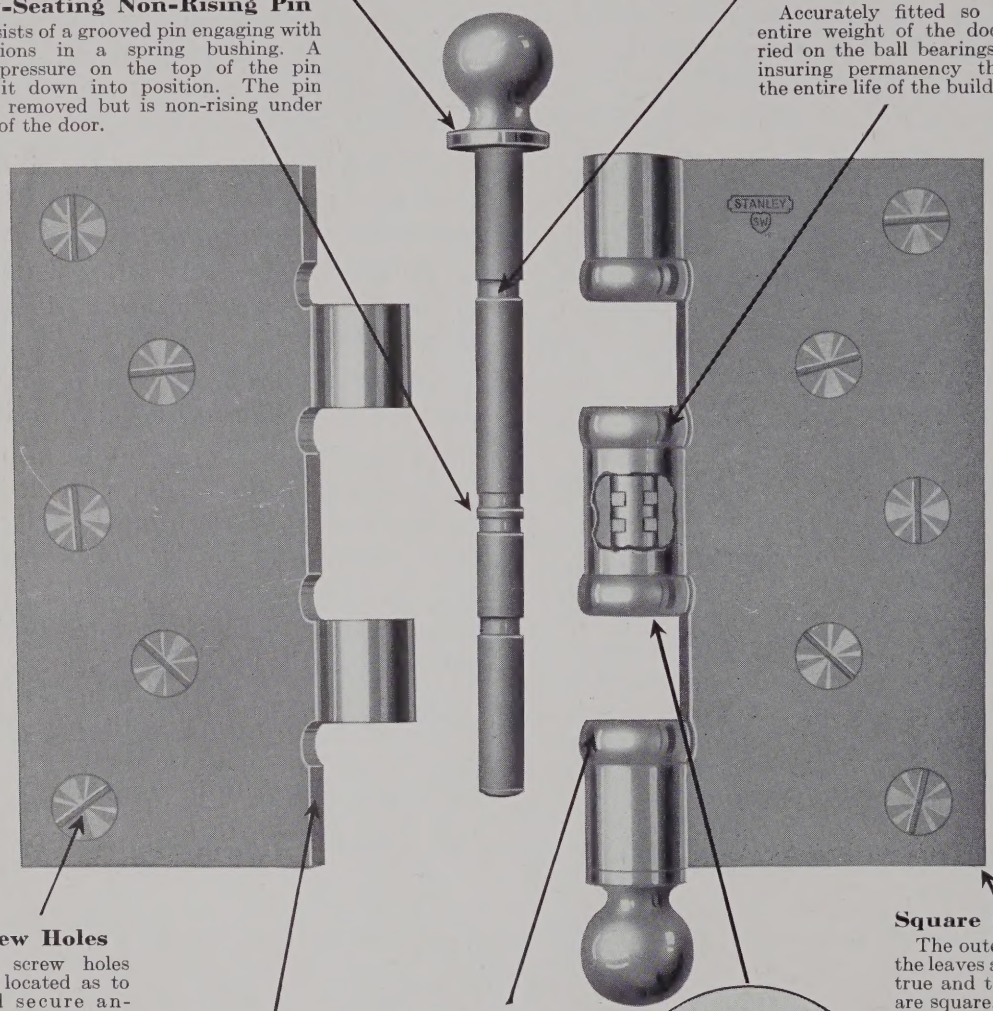
Grooves in the pin hold the lubricant, preventing wear on the inside of the barrel.

Ball Bearings

Accurately fitted so that the entire weight of the door is carried on the ball bearings, thereby insuring permanency throughout the entire life of the building.

Easy-Seating Non-Rising Pin

Consists of a grooved pin engaging with projections in a spring bushing. A slight pressure on the top of the pin forces it down into position. The pin can be removed but is non-rising under action of the door.



Screw Holes

The screw holes are so located as to afford secure anchorage of the leaves. Holes are countersunk to accurately fit the heads of screws which are selected for each size of butt hinge to bear a definite relationship to the weight of the door to be carried.

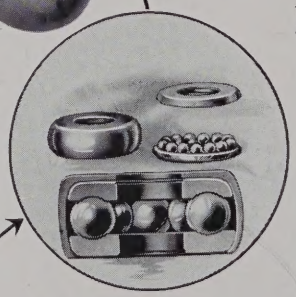
Beveled Edges

The inner edges of the leaves are beveled to make close-fitting joints.

Square Corners

The outer edges of the leaves are ground true and the corners are square.

Non-Detachable Ball Bearings



Ball Bearings

This is the most highly developed type of bearing that can be applied to the joints of butt hinges. It consists of case-hardened steel raceways, accurately made, containing hardened tool steel balls of the highest grade.

The raceways and steel balls are entirely enclosed and protected by a solid metal casing, excluding dust and moisture, and keeping in place a very liberal supply of lubricant which is applied to the bearings in assembling.

The ball bearings are permanently attached to the knuckles and are held in place when the leaves are taken apart. This non-detachable feature, originated by The Stanley Works, is an important advance in butt hinge construction.

United States Government Type Numbers

Listed in Federal Specifications FF-H-111 and FF-H-116a with Comparative Stanley Class Numbers

U. S. Number		Stanley Number	Page
A1010	Closet Bar	7020	144
A1010A	" "	7021	144
1019	Barrel Bolt	408	117
1019A	" "	1335	117
1019B	" "	Sc1084	117
1019C	" "	1109	117
1022	Chain Bolt	355	132
1022A	" "	1055K	132
1022B	" "	1055J	132
1028A	Cremone Bolt	377 or 378	122
A1028	" "	1052KJ	120
A1030	Espagnolette Bolt	1053KJ	121
1037B	Flush Bolt	393	125
1044D	" "	386	123
1044E	" "	385	123
1049	Foot Bolt	356	133
1049A	" "	1056K	133
1049B	" "	1056J	133
1050	" "	357	133
1050A	" "	1057K	133
1050B	" "	1057J	133
1051A	Cane Bolt	1010	131
1054	Neck Bolt	Sc1155	129
1056	" "	Sc1154	129
1059	Square Bolt	Sc1088	130
1060	Surface Bolt	366	126
1060A	" "	379	126
A1060	Window Spring Bolt	1697-3¼"	118
1068	Shelf Bracket	492	143
1068A	" "	492K	143
1068B	" "	Sc792J	143
1069	Door Button	Sc4K	152
B1137	Cellar Window Fastener	1766K	176
B1137A	" " "	1766J	176
A1148	Scuttle Fastener	1674R	81
1151	Door Holder	457	149
1151A	" "	456	149
B1154	Garage Door Holder	1793	151
B1154A	" " "	1774	151
1189	Thumb Latch	1252K	162
1189A	" "	1252J	162
A1196	" "	1264K or J	162
1201	Sash Lift	485	147
1201A	" "	486	147
A1223	Screen Lift	465¼	180
A1223A	" "	465J	180
B1264	Window Pole	7025¼	166
B1264A	" "	7025	166
1269	Screen Pull	477	180
1269A	" "	479	180
1269B	" "	479J	180
1274A	Door Pull	482 No. 3	165
1274B	" "	482K No. 3	165
1274C	" "	482J No. 3	165
1276	" "	1265K	164
1276A	" "	1265J	164
1296	Drawer Pull	462	147
1401	Hinge Hasp	Sc912	97
1401A	" "	Sc1308	97
1420	Safety Hasp	Sc915	96
1420A	" "	Sc915K	96
1421	" "	Sc917	96
1421A	" "	Sc917K	96
1430	Padlock Eyes	1245K No. 2	163
1650	Storm Sash Fastener	1719K	194
1801	Blind Hinge	Sc1360	198
1801A	" "	Sc1342	198
1802	" "	Sc1364	198
1802A	" "	Sc1346	198
1811	Blind Fastener	1382	204
1811A	" "	1382½	204
1821	Blind Holdback	1685P	195
1821A	" "	1686P	195
1821B	" "	1687P	195
1825	Screen Hanger	1724K	189
1825A	" "	1724¼	189
1825B	" "	1704K	189
1825C	" "	1704¼	189
1826	" "	1725K	187
1830	Storm Sash Hanger	1716K	190
1830A	" " "	1716¼	190
2001	Butt Hinge	BB180	27
2001½	" "	BB180FBT	27

U. S. Number		Stanley Number	Page
2002	Butt Hinge	BB181	26
2002½	" "	BB181FBT	26
2005	" "	175	51
2005½	" "	175FBT	51
2010	" "	BB241	30
2010½	" "	BB241FBT	30
2010B	" "	BB239	27
2010½B	" "	BB239FBT	27
2010½P	" "	BB242	30
2011	" "	BB250	26
2011½	" "	BB250FBT	26
2011½P	" "	BB251	26
2014	" "	1345	54
2014½P	" "	242	53
2015	" "	241	53
2015½	" "	241FBT	53
2015B	" "	239	51
2015½B	" "	239FBT	51
2017A	" "	189	82
2017½A	" "	189FBT	82
2018	" "	289	82
2018A	" "	289½	82
2018½	" "	289FBT	82
2018½P	" "	285	82
2021	" "	195	82
2021A	" "	195	82
2022	" "	295	82
2022½P	" "	282	82
2028	" "	192½	57
2029A	" "	291K	57
2029B	" "	291	57
2029C	" "	291½	57
2029P	" "	290P	57
A2030	Hinge	850	60
A2030A	"	*850 Loose OH Pin	60
A2030B	Butt Hinge	*850 Swaged, with Screw Holes	60
A2030C	" "	*850 Swaged, Loose OH Pin, with Screw Holes	60
A2030D	Hinge	*850RBP	60
B2030D	"	*291KBP Not Swaged, without Screw Holes	57
2031	Butt Hinge	Sc804	69
2031A	" "	804KBP	69
2040	" "	243	52
2041	" "	BB243	52
2060	" "	HTBB180	29
2061	" "	HTBB239	29
2061P	" "	HTBB235	29
2063	" "	HTBB181	28
2064	" "	HTBB250	28
2064P	" "	HTBB251	28
2065	" "	HTBB116	45
2066	" "	HTBB162	45
2066P	" "	HTBB126	45
2068	" "	HTBB113	44
2069	" "	HTBB163	44
2069P	" "	HTBB123	44
2080	" "	BB165	43
2080B	" "	BB162	43
2080½P	" "	BB125	43
A2080	" "	BB163	42
A2080½P	" "	BB123	42
B2080	" "	165	55
B2080½P	" "	125	55
2081	" "	BB116	43
A2081	" "	BB113	42
2140	Garage Hinge	BB1458½K 12–18 BB1458K 24–36	114 113
2140A	" "	BB1458½KJ 12–18 BB1458KJ 24–36	114 113
2203	Strap Hinge	Sc1302¼	102
2208	Tee Hinge	Sc1304¼	104
2209	" "	Sc1306¼	105
2212	Half Surface Hinge	Sc963½RBP	106
2240	Scuttle Hinge	1634 (Specify Size)	81
2240A	" "	1634J (Specify Size)	81
2240B	" "	1634R (Specify Size)	81
2301	Screen Door Spring Hinge	154	182
2301A	" " " "	154¼	182
2302	" " " "	152	182
2302A	" " " "	152¼	182
2334	Floor Spring Hinge	BB156	63

*When ordering specify as listed

Gauge Equivalents in Decimal Parts of an Inch

Gauge Number	Birmingham or Stubbs Gauge	American or Brown & Sharpe Gauge	United States Standard Gauge	British Imperial or English Legal Standard Gauge	Fractions of an Inch with Decimal Equivalent
0000	.454	.460	.4062	.400	1/64 — .016
000	.425	.410	.3750	.372	1/32 — .031
00	.380	.365	.3437	.348	3/64 — .047
0	.340	.325	.3125	.324	1/16 — .062
1	.300	.289	.2812	.300	5/64 — .078
2	.284	.258	.2656	.276	3/32 — .094
3	.259	.229	.2500	.252	7/64 — .109
4	.238	.204	.2344	.232	1/8 — .125
5	.220	.182	.2187	.212	9/64 — .140
6	.203	.162	.2031	.192	5/32 — .156
7	.180	.144	.1875	.176	11/64 — .172
8	.165	.128	.1719	.160	3/16 — .187
9	.148	.114	.1562	.144	13/64 — .203
10	.134	.102	.1406	.128	7/32 — .219
11	.120	.091	.1250	.116	15/64 — .234
12	.109	.081	.1094	.104	1/4 — .250
13	.095	.072	.0937	.092	9/32 — .281
14	.083	.064	.0781	.080	5/16 — .312
15	.072	.057	.0703	.072	11/32 — .344
16	.065	.051	.0625	.064	3/8 — .375
17	.058	.045	.0562	.056	13/32 — .406
18	.049	.040	.0500	.048	7/16 — .437
19	.042	.036	.0437	.040	15/32 — .469
20	.035	.032	.0375	.036	1/2 — .500
21	.032	.028	.0344	.032	17/32 — .531
22	.028	.025	.0312	.028	9/16 — .562
23	.025	.023	.0281	.024	19/32 — .594
24	.022	.020	.0250	.022	5/8 — .625
25	.020	.018	.0219	.020	21/32 — .656
26	.018	.016	.0187	.018	11/16 — .688
27	.016	.014	.0172	.0164	23/32 — .718
28	.014	.0125	.0156	.0148	3/4 — .750
29	.013	.011	.0141	.0136	25/32 — .781
30	.012	.010	.0125	.0124	13/16 — .812
31	.010	.009	.0109	.0116	27/32 — .844
32	.009	.008	.0102	.0108	7/8 — .875
33	.008	.007	.0093	.0100	29/32 — .906
34	.007	.006	.0085	.0092	15/16 — .937
35	.005	.005	.0078	.0084	31/32 — .969
36	.004	.005	.0070	.0076	1 — 1.000

The Birmingham (or Stubbs) Gauge is universally recognized as Standard by manufacturers of Strip Steel. Specification by gauge number will be interpreted accordingly unless otherwise stated.

Finish Symbols

with Comparative Symbols of United States Standard and Builders' Hardware Manufacturers

The following list represents a fair comparison of the United States Standard and different manufacturers' finishes. When an exact match is desired submit sample.

The Stanley Works	United States Standard	General Description	Barrows Lock Works	Chantrell Hdw. & Tool Co.	P. & F. Corbin	Lockwood Hardware Mfg. Co.	Norwalk Lock Co.	Penn Hardware Company	Reading Hardware Corporation	Russell & Erwin Mfg. Company	Sager Lock Works	Sargent & Company	The Yale & Towne Mfg. Company
A	US9	Bright bronze	A20	40	B	1	1	BBZ	1	11	A20	P	BZ10
AL	.....	Aluminum, bright	A120	...	....	.....	.....	.....	.....	....	A120	.....	LZ10
ALD	.....	Aluminum, dull	D120	...	....	.....	.....	.....	.....	....	D120	.....	LY22
A4	US11	Dull bronze, oxidized and relieved	D21	48	HB	23	DB3	DBZR	271	11C	D21	O6P	BY21
A5	US10	Dull bronze	D20	47	DB	34	DB	DBZ	7	11D	D20	OP	BY22
A8	.....	Dull bronze, oxidized, lacquered	D24	...	.....	39	.....	.....	.....	13	D24	O3P	BY24
A9	USSpec	Dull bronze, oxidized, oil rubbed	D23	48OR	EB	39OR	DB2	DBZO	221OR	13NL	D23	O3P	BY23
B	US20	Statuary bronze	D29	46L	.....	38	2	BBZ4	222	2	D29	A	BY25
B1	US20A	Statuary bronze, dark	DD29	46	LB	2	.....	BBZ6	2	2D	DD29	A3B	BY65
C	US3	Bright brass	A30	30	A	13½	1B	BB	31	10	A30	B	AZ10
CM	US26	Chromium plated, bright	A110	150	CR	96	CP	BCH	CP	24	A110	CM	DZ10
CMD	US26D	Chromium plated, dull	D110	157	DCR	97	DCP	DCH	DCP	34	D110	DCM	DY10
D2	US8	Antique copper	A42	24	R	7½	O	AC	24	7½	A42	AB	CZ27
E4	US23	Silver plated, dull oxidized and relieved	D61	...	KS	72	S	DSR	49	8C	D61	LS	SY52
F	US4	Dull brass	D30	37	EA	13	K	DB	37	9	D30	OB	AY22
***F4**	US5	Dull brass, oxidized and relieved	D31	38	KA	43	K3	DBR	371	9C	D31	OE	AY21
G	US18	Sanded, genuine Bower Barff	17	8	F	31	R1	RP	87	46	17	BB	FX80
H	US19	Sanded, dull black	18	9	KF	6	HW	IRP	87½	47	18	BN	BX80 (Bze) / FX90 (Steel)
J	US1B	Japanned, bright	010	02	J	J	J	J	J	....	010	.....	J
J1	US1D	Dead black	OD10	9	D	JF	DJ	DJ	DJ	....	OD10	J	DJ
K	US2C	Cadmium, bright	A90	...	.....	C	CAD	CAD	CA	....	A90	W	CM
KD	.....	Cadmium, dull	D90	07	GG	....	DCAD	.....	DCA	....	D90	.....	.....
ML	.....	Monel metal, bright	.....	...	.....	.....	.....	.....	.....	....	.....	.....	.....
MLD	.....	Monel metal, dull	.....	...	.....	.....	.....	.....	.....	....	.....	.....	.....
N	US14	Nickel plated, bright	A50	50	E	5	NP	BN	80	4	A50	N	NZ10
N5	US15	Nickel plated, dull	D50	57	DE	90	DN	DN	77	14	D50	LN	NY10
NM	US25	White bronze metal, bright	A100	250	NK	95	NM	White Bronze	81	44	A100	EM	NZ40
NMD	.....	White bronze metal, dull	D100	257	.....	.....	DNM	.....	.....	44D	D100	DEM	.....
P	USP	Primed for painting	.....	PC	.....	P	PC	.....	PR	PC	.....	.....	.....
R	US2H	Hot galvanized	.....	05	.....	....	G	.....	HG	Galv.	.....	.....	.....
RBP	.....	Hot galvanized with brass pin	.....	...	.....	.....	.....	.....	.....	....	.....	.....	.....
SA4	US12	Sanded bronze, oxidized and relieved	S21	448	SHB	36½	HDB3	SBZ	223	011C	S21	RP	BX13
SB	US21	Statuary bronze, sanded	S29	446	.....	38S	H2	SBZ4	2½	02	S29	RA	BX25
SF4	US6	Sanded brass, oxidized and relieved	S31	338	SKA	51	HK3	SB	33	09C	S31	RD	AX28
SN	US16	Nickel plated, sanded	S51	558	SE	5S	HNP	SN	78	04	S51	RN	NX10
STS	.....	Stainless steel, bright	.....	...	.....	.....	.....	.....	.....	....	.....	.....	.....
STSD	.....	Stainless steel, dull	.....	...	.....	.....	.....	.....	.....	....	.....	.....	.....
V	US22	Verde antique	S81	888	V	85	VA	V	90	36	S81	VA	BX67

*Limited to Ornamental Hardware. Plain Hardware to match, specify Finish F—US4.

Wrought Iron Finishes

Rough Rolled Surface with a Rust-Resisting Base

WDB Dead black.

WR Black oxidized and relieved.

WR1 Rusty iron, dark.

WR2 Rusty iron, light.

WR4 Sanded, black oxidized and relieved.

WR5 Half-polished iron.

WR9 To match roughened oxidized white metal.

WYE Etched, relieved iron.

Old Iron Finishes

Plain Surface

HY Half-polished iron.

Y Old iron, sanded and relieved, over a rust-resisting base.

Y3 Old iron, sanded and relieved.

Y4 Imitation half-polished iron.

Extra Heavy Ball Bearing Butt Hinges

Template and Non-Template

Five Knuckles — Non-Rising Loose Pin — Ball Tips

Wrought Bronze or Brass

Polished and Highly Finished

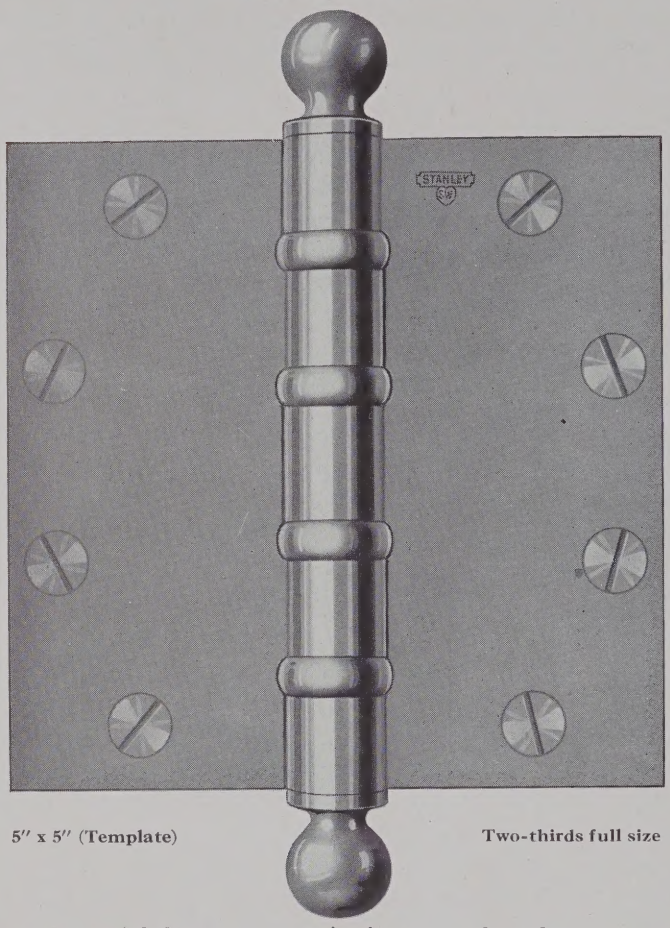
BB199 Template
BB181 Non-Template

Wrought Steel

Highly Polished and Heavily Plated

BB168 Template
***BB250 Non-Template**

*Furnished in plain steel and without screw holes under **BB851**



5″ x 5″ (Template) — Two-thirds full size

Wrought Steel

For Painting

BB118 Template
BB251 Non-Template

Button Tips
Furnished with BB118 and BB251
Other numbers on order

For heavy doors or doors where high frequency service is expected, such as entrance doors to office buildings, stores and public buildings and corridor entrance doors to offices.

Made of extra heavy wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

Equipped with four Stanley Non-Detachable Ball Bearings, except size 4″ x 4″, which has two.

BB168 and BB250 are highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Hollow Metal Doors or Wood Doors with Pressed Steel Jambs.
Use Non-Template Butt Hinges on Wood Doors with Wood Jambs.

Size Open (Inches)	Gauge of Metal	Quantity and Size of Screws — Template		Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	
		Machine	Wood	Non-Template	Bronze	Steel
4 x 4	.170	4–½ x 12-24	4–1¼ x 12	8–1¼ x 12	253	244
4½ x 4½	.180	4–½ x 12-24	4–1¼ x 12	8–1¼ x 12	331	304
5 x 4	.190	4–½ x 12-24	4–1½ x 12	10–1½ x 12	377	339
5 x 4½	.190	4–½ x 12-24	4–1½ x 12	10–1½ x 12	401	362
5 x 5	.190	4–½ x 12-24	4–1½ x 12	10–1½ x 12	433	388
6 x 6	.203	5–½ x ¼-20	5–1½ x 14	10–1½ x 14	650	625
8 x 6	.203	8–½ x ¼-20	8–1½ x 14	14–1½ x 14	838	788
8 x 8	.203	8–½ x ¼-20	8–1½ x 14	14–1½ x 14	1025	950

One pair in a box with screws. Finishes described on page 25.

When template butt hinges are ordered for hollow metal doors with pressed steel jambs, specify "all MS."

Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

Regular Weight Ball Bearing Butt Hinges

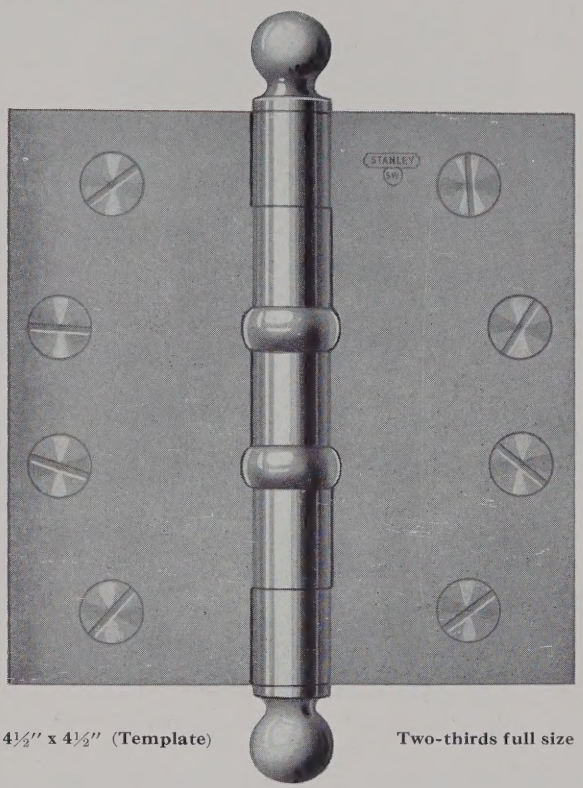
Template and Non-Template

Five Knuckles | Non-Rising Loose Pin | Ball Tips

Wrought Bronze or Brass

Polished and Highly Finished

BB193 Template
BB180 Non-Template



4½" x 4½" (Template) Two-thirds full size

Wrought Steel

Highly Polished and Heavily Plated

BB174 Template
BB239 Non-Template

Button Tips Furnished in place of ball tips on order

For medium weight doors receiving average frequency service, and where the finest regular weight wrought bronze, brass or steel ball bearing butt hinge is desired.

Made of wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves are beveled to make close-fitting joints.

Equipped with two Stanley Non-Detachable Ball Bearings.

BB174 and BB239 are highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Hollow Metal Doors or Wood Doors with Pressed Steel Jambs. Use Non-Template Butt Hinges on Wood Doors with Wood Jambs.

Size Open (Inches)	Gauge of Metal	Quantity and Size of Screws — Template		Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	
		Machine	Wood	Non-Template	Bronze	Steel
3 x 3	.092	*3–½ x 10-24	3–1 x 8	6– ¾ x 8	100	82
3½ x 3½	.123	3–½ x 10-24	3–1 x 10	6–1 x 9	145	136
4 x 4	.130	4–½ x 12-24	4–1¼ x 12	8–1 x 10	193	180
4½ x 4½	.134	4–½ x 12-24	4–1¼ x 12	8–1¼ x 10	255	226
5 x 4	.146	4–½ x 12-24	4–1¼ x 12	10–1¼ x 12	284	251
5 x 4½	.146	4–½ x 12-24	4–1¼ x 12	10–1¼ x 12	294	269
5 x 5	.146	4–½ x 12-24	4–1¼ x 12	10–1¼ x 12	336	307
6 x 6	.160	5–½ x ¼-20	5–1½ x 14	10–1½ x 14	515	470

One pair in a box with screws.

Finishes described on page 25.

When template butt hinges are ordered for hollow metal doors with pressed steel jambs, specify "all MS."

Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

*No. 8 Head

Extra Heavy Ball Bearing Hospital Butt Hinges

Template and Non-Template

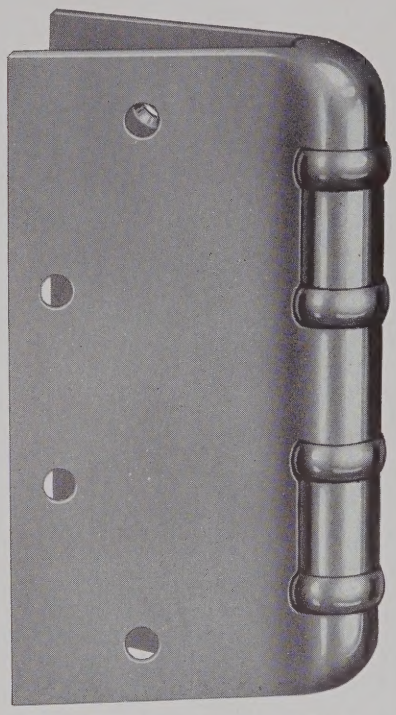
Five Knuckles

Fast Pin

Wrought Bronze or Brass

Polished and Highly Finished

HTBB199 Template
HTBB181 Non-Template



5″ x 5″ (Template) Two-thirds full size

Wrought Steel

Highly Polished and Heavily Plated

HTBB168 Template
HTBB250 Non-Template

For Painting

HTBB118 Template
HTBB251 Non-Template

For heavy doors or doors where high frequency service is expected in hospitals, institutions, etc.

Made of extra heavy wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

The ends of the barrel are rounded, making it impossible to attach ropes, wearing apparel, etc. Easily kept free from dust and dirt. If desired for penal institutions, etc., they can be furnished with pin welded to the barrel at both ends. Suffix symbol "WDP."

Equipped with four Stanley Ball Bearings, except size 4″ x 4″ which has two.

HTBB168 and HTBB250 are highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Hollow Metal Doors or Wood Doors with Pressed Steel Jambs. Use Non-Template Butt Hinges on Wood Doors with Wood Jambs.

Size Open (Inches)	Gauge of Metal	Quantity and Size of Screws — Template		Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	
		Machine	Wood	Non-Template	Bronze	Steel
4 x 4	.170	4–½ x 12-24	4–1¼ x 12	8–1¼ x 12	228	220
4½ x 4½	.180	4–½ x 12-24	4–1¼ x 12	8–1¼ x 12	298	274
5 x 4	.190	4–½ x 12-24	4–1½ x 12	10–1½ x 12	340	306
5 x 4½	.190	4–½ x 12-24	4–1½ x 12	10–1½ x 12	365	328
5 x 5	.190	4–½ x 12-24	4–1½ x 12	10–1½ x 12	391	350
6 x 6	.203	5–½ x ¼-20	5–1½ x 14	10–1½ x 14	587	564
8 x 6	.203	8–½ x ¼-20	8–1½ x 14	14–1½ x 14	757	711
8 x 8	.203	8–½ x ¼-20	8–1½ x 14	14–1½ x 14	926	857

One pair in a box with screws.

Finishes described on page 25.

When template butt hinges are ordered for hollow metal doors with pressed steel jambs, specify "all MS."

Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

Regular Weight Ball Bearing Hospital Butt Hinges

Template and Non-Template

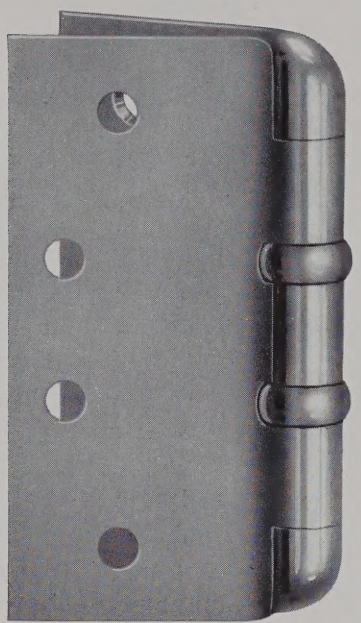
Five Knuckles

Fast Pin

Wrought Bronze or Brass

Polished and Highly Finished

HTBB193 Template
HTBB180 Non-Template



4½" x 4½" (Template) Two-thirds full size

Wrought Steel

Highly Polished and Heavily Plated

HTBB174 Template
HTBB239 Non-Template

For Painting

HTBB145 Template
HTBB235 Non-Template

For medium weight doors receiving average frequency service in hospitals, institutions, etc.

Made of wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

The ends of the barrel are rounded, making it impossible to attach ropes, wearing apparel, etc. Easily kept free from dust and dirt. If desired for penal institutions, etc., they can be furnished with pin welded to the barrel at both ends. Suffix symbol "WDP."

Equipped with two Stanley Ball Bearings.

HTBB174 and HTBB239 are highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Hollow Metal Doors or Wood Doors with Pressed Steel Jambs. Use Non-Template Butt Hinges on Wood Doors with Wood Jambs.

Size Open (Inches)	Gauge of Metal	Quantity and Size of Screws — Template		Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	
		Machine	Wood	Non-Template	Bronze	Steel
3 x 3	.092	*3–½ x 10-24	3–1 x 8	6– ¾ x 8	78	70
3½ x 3½	.123	3–½ x 10-24	3–1 x 10	6–1 x 9	135	120
4 x 4	.130	4–½ x 12-24	4–1¼ x 12	8–1 x 10	191	170
4½ x 4½	.134	4–½ x 12-24	4–1¼ x 12	8–1¼ x 10	249	205
5 x 4	.146	4–½ x 12-24	4–1¼ x 12	10–1¼ x 12	271	232
5 x 4½	.146	4–½ x 12-24	4–1¼ x 12	10–1¼ x 12	294	252
5 x 5	.146	4–½ x 12-24	4–1¼ x 12	10–1¼ x 12	317	271

One pair in a box with screws.

Finishes described on page 25.

When template butt hinges are ordered for hollow metal doors with pressed steel jambs, specify "all MS."

*No. 8 Head

Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

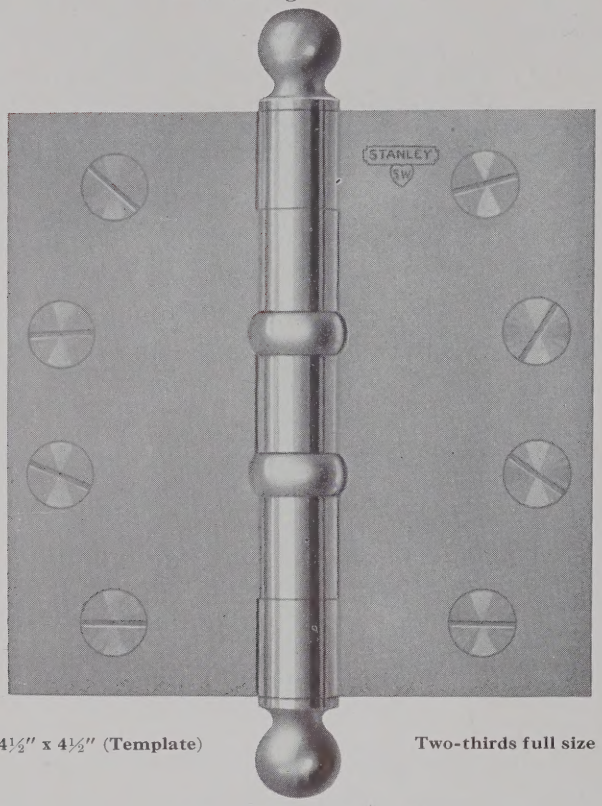
Regular Weight Ball Bearing Butt Hinges

Template and Non-Template

Five Knuckles

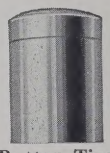
Non-Rising Loose Pin

Ball Tips



4½" x 4½" (Template)

Two-thirds full size



Button Tips

Furnished with BB146 and BB242
Other numbers on order

Wrought Steel Polished and Plated	Wrought Steel Planished and Plated	Wrought Steel For Painting
BB1791/2 Template **BB2411/2 Non-Template**	**BB179 Template** **BB241 Non-Template**	**BB146 Template** **BB242 Non-Template**

For medium weight interior doors receiving average frequency service.

Made of wrought steel, toughened and hardened by cold rolling. On butt hinges for painting, the inner edges of the leaves are milled back, allowing sufficient paint clearance.

Equipped with two Stanley Non-Detachable Ball Bearings.

Use Template Butt Hinges on Hollow Metal Doors or Wood Doors with Pressed Steel Jambs. Use Non-Template Butt Hinges on Wood Doors with Wood Jambs.

Size Open (Inches)	Gauge of Metal	Quantity and Size of Screws — Template — Machine	Quantity and Size of Screws — Template — Wood	Quantity and Size of Wood Screws — Non-Template	Average Net Weight Per 100 Pairs (Lbs.)	Pairs in a Case — BB241 BB241½ BB242	Average Case Weight (Lbs.)
3 x 3	.092	*3–½ x 10-24	3–1 x 8	6– ¾ x 8	82	50	43
3½ x 3½	.123	3–½ x 10-24	3–1 x 10	6–1 x 9	136	50	70
4 x 4	.130	4–½ x 12-24	4–1¼ x 12	8–1 x 10	180	25	47
4½ x 4½	.134	4–½ x 12-24	4–1¼ x 12	8–1¼ x 10	226	25	59
5 x 4	.146	4–½ x 12-24	4–1¼ x 12	10–1¼ x 12	251	..	..
5 x 4½	.146	4–½ x 12-24	4–1¼ x 12	10–1¼ x 12	269	..	..
5 x 5	.146	4–½ x 12-24	4–1¼ x 12	10–1¼ x 12	300	20	61
6 x 6	.160	5–½ x ¼-20	5–1½ x 14	10–1½ x 14	470	..	..

One pair in a box with screws.

Finishes described on page 25.

When template butt hinges are ordered for hollow metal doors with pressed steel jambs, specify "all MS."

For odd sizes of BB241, see BB243, page 52

*No. 8 Head

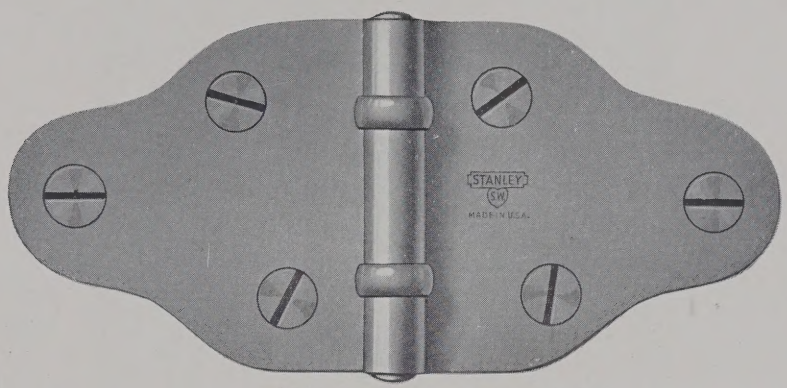
Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

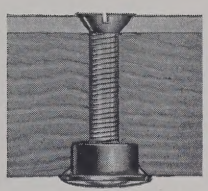
Regular Weight Full Surface Ball Bearing Hinges

Three Knuckles — Fast Pin

For Folding Doors of Street Cars and Motor Buses



2¾″ x 6″ Two-thirds full size



Section showing application of machine screw and grommet nut

Wrought Steel

BB187 Planished and Plated

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two Stanley Ball Bearings, which prevent the hinges from wearing at the joints and insure that doors will operate easily.

Applied to the surface of the door with flat head machine screws and grommet nuts which fit flush with the door.

Furnished on order in other lengths and with various locations of screw holes.

Size, Open (Inches)	Gauge of Metal	Quantity and Size of FH Machine Screws with Grommet Nuts	Average Net Weight Per 100 Pairs (Lbs.)	
			With Screws and Nuts	Without Screws or Nuts
2¾ x 6	.123	6–1⅜ x 12–24	125	113
2¾ x 8	.123	6–1⅜ x ¼–20	162	150

One pair in a box with screws and grommet nuts; without screws packed bulk.

Finishes described on page 25

Specify Class Number, Finish and Size, also (state whether with or without screws)

Use Three Hinges to a Door

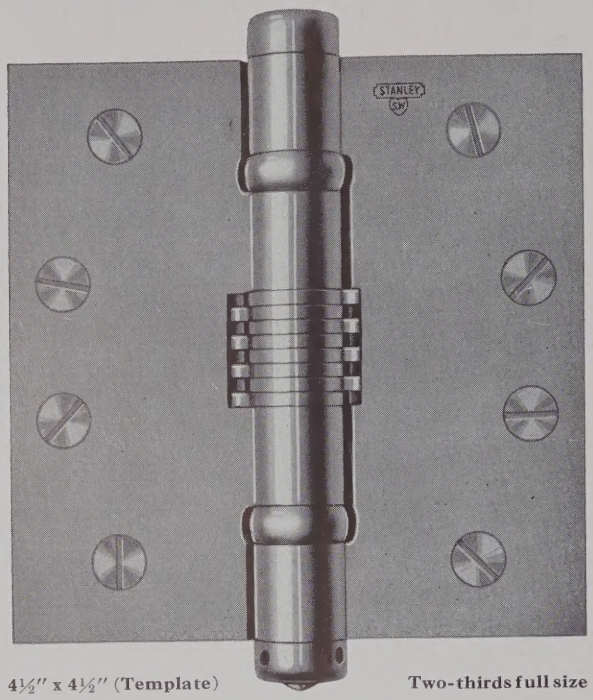
Extra Heavy Ball Bearing Friction Butt Hinges

Template and Non-Template

Five Knuckles

Loose Pin

Button Tips



4½" x 4½" (Template) Two-thirds full size

Wrought Steel

Highly Polished and Heavily Plated

BB153 Template
BB253 Non-Template

Wrought Steel

For Painting

BB147 Template
BB247 Non-Template

For doors in hospitals where quiet is essential. Will hold doors open at any angle and prevent them from slamming.

Made of extra heavy wrought steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

The eight friction discs are of alternate bronze and hardened steel, insuring long wear. They are held together as a unit by a hardened steel bushing. This complete unit is attached to one leaf. There are no loose parts to hinder application. Friction can be adjusted by means of lower tip, acting as a nut.

The weight of the door is carried on Stanley Non-Detachable Ball Bearings. The friction unit is entirely independent and performs only one function; namely to supply friction.

The upper tip is provided with a small oil hole which connects with a straight channel in the pin, carrying the lubricant directly to the friction discs, assuring noiseless operation.

BB153 and BB253 are highly polished and copper plated before receiving final plated finish, insuring a high finish.

With friction hinges, we recommend our roller latch for holding the door in the closed position; also our rubber bumpers for silencing the door when coming into the closed position (see page 80).

Use Template Butt Hinges on Hollow Metal Doors or Wood Doors with Pressed Steel Jambs. Use Non-Template Butt Hinges on Wood Doors with Wood Jambs.

Size Open (Inches)	Gauge of Metal	Clearance between Leaves when Opened Parallel (Inches)	Quantity and Size of Screws		Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)
			Template			
			Machine	Wood	Non-Template	
4½ x 4	.190	3/32	4–½ x 12-24	4–1½ x 12	10–1½ x 12	267
4½ x 4½	.190	3/32	4–½ x 12-24	4–1½ x 12	10–1½ x 12	282
5 x 4	.190	3/32	4–½ x 12-24	4–1½ x 12	10–1½ x 12	319
5 x 4½	.190	3/32	4–½ x 12-24	4–1½ x 12	10–1½ x 12	330
5 x 5	.190	3/32	4–½ x 12-24	4–1½ x 12	10–1½ x 12	342

One pair in a box with screws.

Finishes described on page 25.

When template butt hinges are ordered for hollow metal doors with pressed steel jambs, specify "all MS."

Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

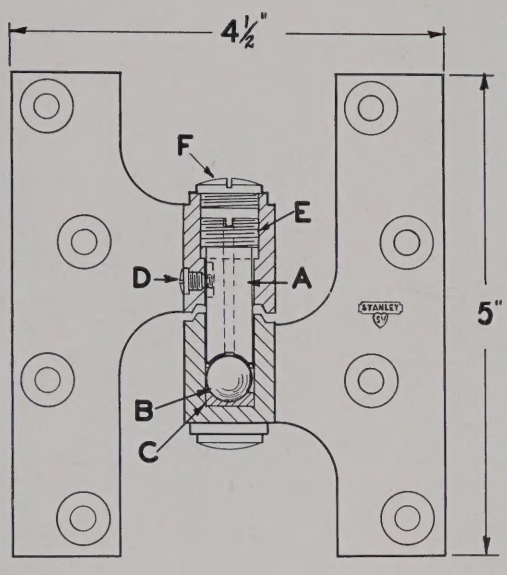
Extra Heavy Ball Joint Butt Hinge

Adjustable

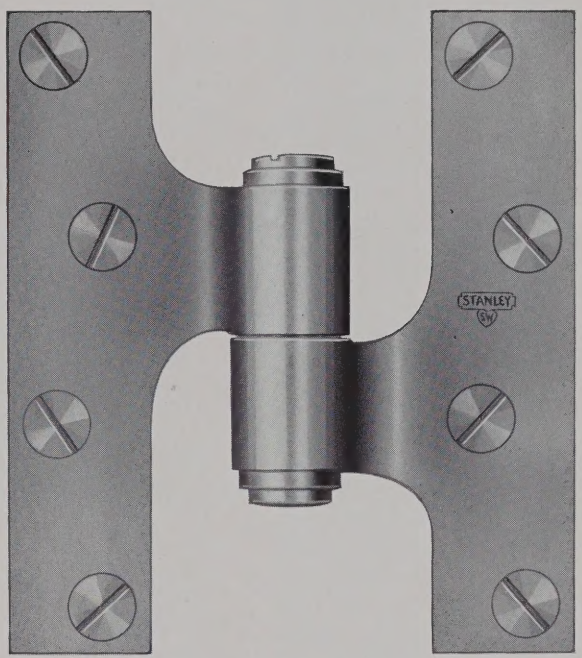
Loose Joint

Template

Specify Hand



Showing construction



(RH) Two-thirds full size

Solid Bronze

Polished and Highly Finished

74 Template

For hollow metal doors or heavy wood doors, such as entrance doors to office buldings, stores and public buildings.

Made of extra heavy special solid bronze metal.

The weight of the door is carried on a ½″ diameter hardened steel pivot (A), resting on a ½″ hardened and ground steel ball (B), which in turn rests on a hardened steel cup bearing (C). A set screw (D) in the knuckle of the door leaf engages in a slot in the pivot, holding the pivot in place and preventing it from turning, still allowing for vertical adjustment. A retaining ring in the knuckle of the jamb leaf holds the ball in place, preventing loss when unassembled.

Vertical adjustment of ¼″ is provided by a disc (E) in the top knuckle. The door may be easily raised or lowered by removing cap (F) and turning the disc with a screw-driver. A small hole drilled through the disc and pivot permits easy lubrication of the bearing surfaces, where the lubricant is retained.

Use Template Butt Hinges on Hollow Metal Doors or Wood Doors with Pressed Steel Jambs.

Size Open (Inches)	Gauge of Metal	Width of Leaves (Inches)	Maximum Clearance between Door (open position) and Jamb (Inches)	Clearance between Leaves when Opened Parallel (Inches)	Quantity and Size of Screws		Average Net Weight Per 100 Pairs (Lbs.)
					Machine	Wood	
5 x 4½	.250	1⅛	1¾	3/32	4–½ x ¼-20	4–1½ x 14	305

One pair in a box with screws.

Finishes described on page 25.

When template butt hinges are ordered for hollow metal doors with pressed steel jambs, specify "all MS."

Specify Class Number, Finish and (Hand, see page 17)

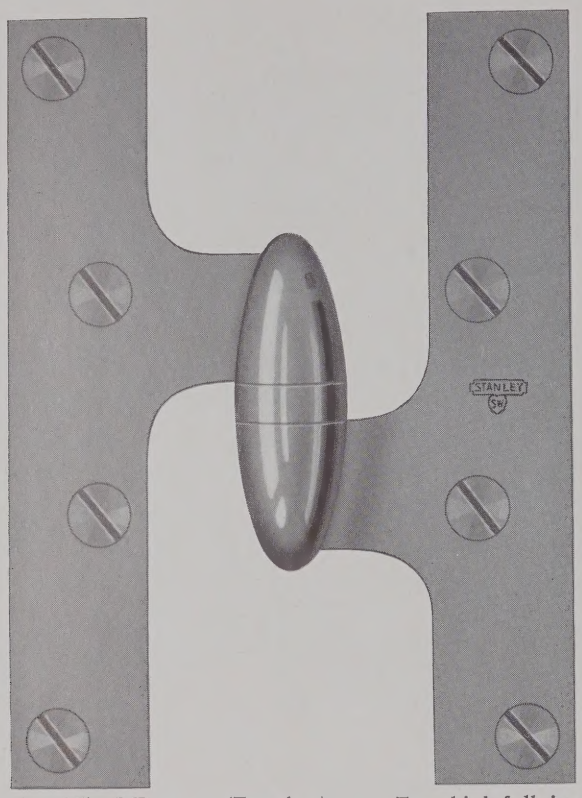
Use Three Butt Hinges to a Door

Extra Heavy Ball Bearing Olive Knuckle Butt Hinges

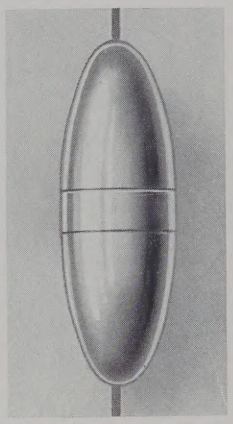
Template and Non-Template

Loose Joint

Specify Hand



6″ x 4½″ (RH) (Template) Two-thirds full size



When door is closed knuckle only is visible

Drop-Forged Bronze or Brass

Polished and Highly Finished

BB 92 Template
BB104 Non-Template

Drop-Forged Steel

Highly Polished and Heavily Plated

BB142 Template
BB202 Non-Template

Drop-Forged Steel

For Painting

BB143 Template
BB204 Non-Template

For hollow metal doors or heavy wood doors of office buldings, hotels and hospitals.

Made of extra heavy bronze, brass or steel, drop-forged.

The wide leaves with staggered screw holes prevent the butt hinges from rocking and increase the holding power of the screws.

Equipped with a Stanley Non-Detachable Ball Bearing.

BB142 and BB202 are highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Hollow Metal Doors or Wood Doors with Pressed Steel Jambs. Use Non-Template Butt Hinges on Wood Doors with Wood Jambs.

Size Open (Inches)	Gauge of Metal	Width of Leaves (Inches)	Maximum Clearance between Door (open position) and Jamb (Inches)	Quantity and Size of Screws		Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	
				Template				
				Machine	Wood	Non-Template	Bronze	Steel
6 x 4	.225	1⅛	1¼	4–½ x ¼-20	4–1½ x 14	8–1½ x 14	295	263
6 x 4½	.225	1⅛	1¾	4–½ x ¼-20	4–1½ x 14	8–1½ x 14	303	270
6 x 5	.225	1⅛	2¼	4–½ x ¼-20	4–1½ x 14	8–1½ x 14	311	277
6 x 6	.225	1⅛	3¼	4–½ x ¼-20	4–1½ x 14	8–1½ x 14	327	292

One pair in a box with screws.

Finishes described on page 25.

When template butt hinges are ordered for hollow metal doors with pressed steel jambs, specify "all MS."

Specify Class Number, Finish, Size and (Hand, see page 17)

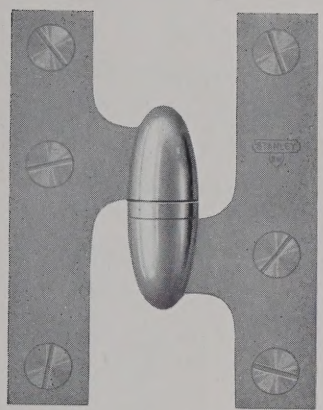
Use Three Butt Hinges to a Door

Regular Weight Ball Bearing Olive Knuckle Butt Hinges

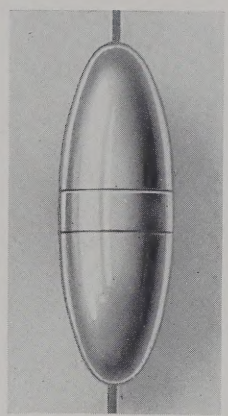
Template and Non-Template

Loose Joint

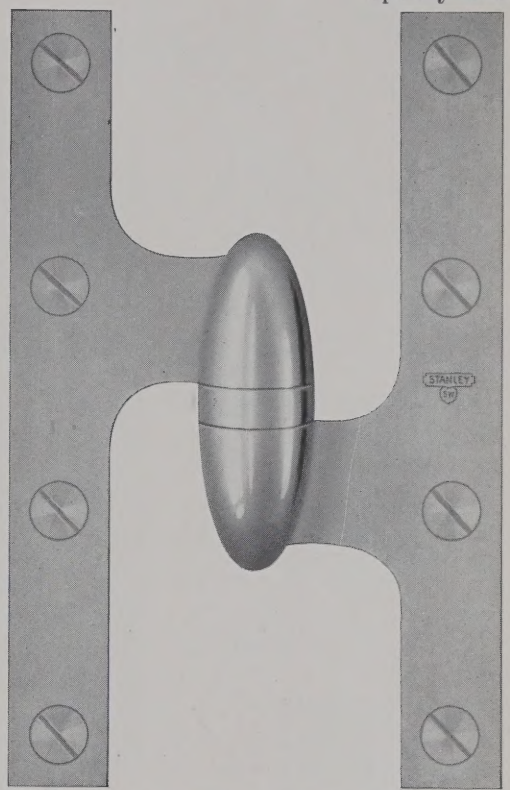
Specify Hand



3″ (RH) Two-thirds full size



When door is closed knuckle only is visible



6″ (RH) (Template) Two-thirds full size

100, 200, 201, 3″

Wrought Bronze or Brass	Wrought Steel	Wrought Steel
Polished and Highly Finished	Highly Polished and Heavily Plated	For Painting
BB 95 Template	**BB141 Template**	**BB140 Template**
BB100 Non-Template	**BB201 Non-Template**	**BB200 Non-Template**
100 Non-Template	**201 Non-Template**	**200 Non-Template**

For medium weight wood doors, receiving average frequency service in residences, hotels, office buildings and hospitals.

Made of wrought bronze, brass or steel, toughened and hardened by cold rolling.

Size 3″ recommended for cabinet doors; 5″ for doors 1⅜″ in thickness; 6″ for doors 1¾″ in thickness.

Sizes 5″ and 6″ equipped with a Stanley Non-Detachable Ball Bearing; 3″ with a non-detachable solid washer.

BB141, BB201 and 201 are highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Wood Doors with Pressed Steel Jambs.
Use Non-Template Butt Hinges on Wood Doors with Wood Jambs.

Size Open (Inches)	Gauge of Metal	Width of Leaves (Inches)	Maximum Clearance between Door (open position) and Jamb (Inches)	Quantity and Size of Screws — Template		Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	
				Machine	Wood	Non-Template	Bronze	Steel
3 x 2 5/16	.134	5/8	9/16	. . . . .	. . . . .	6– 3/4 x 8	54	50
5 x 3 1/4	.169	3/4	1 1/4	4–1/2 x 10-24	4–1 x 10	8–1 x 10	146	130
6 x 3 7/8	.203	13/16	1 3/4	4–1/2 x 12-24	4–1 1/4 x 12	8–1 1/4 x 12	231	206

One pair in a box with screws; template with one-half machine screws and one-half wood screws; non-template with wood screws.

Finishes described on page 25

Specify Class Number, Finish, Size and (Hand, see page 17)

Use Three Butt Hinges to a Door

Extra Heavy Full Surface Ball Bearing Hinges

Template

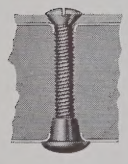
Five Knuckles — Non-Rising Loose Pin — Ball Tips

For Kalamein Doors with Channel Iron Jambs

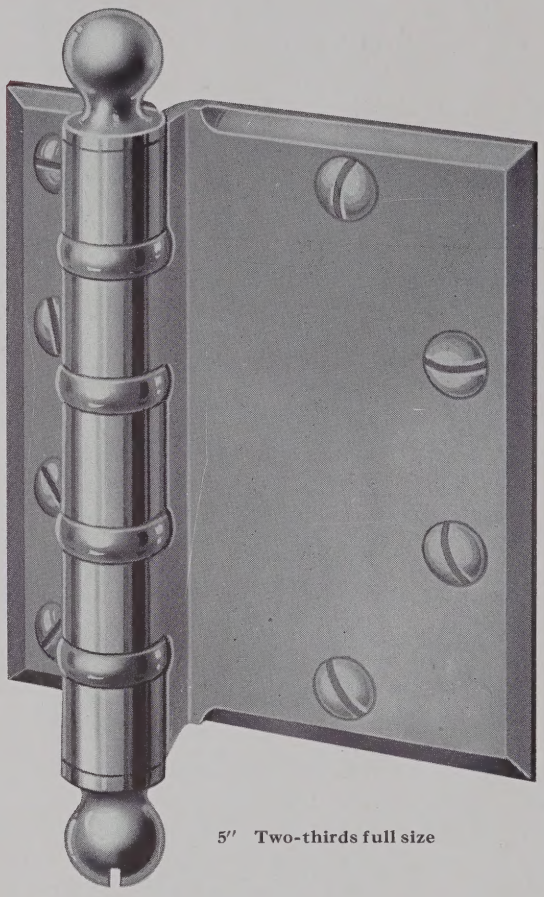
Wrought Bronze or Brass

Polished and Highly Finished

BB109 Template



Section showing application of machine screw and grommet nut to a kalamein door



5″ Two-thirds full size

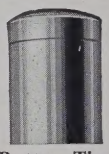
Wrought Steel

Highly Polished and Heavily Plated

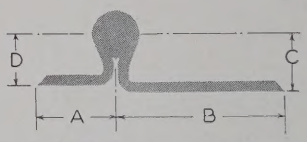
BB169 Template

For Painting

BB129 Template



Button Tips Furnished with BB129 Other numbers on order



See table for measurements. For application, see page 19

For heavy doors or doors receiving high frequency service.

Made of extra heavy wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

Equipped with four Stanley Non-Detachable Ball Bearings.

Door leaf extends 1/8″ beyond jamb leaf allowing door to set in 1/8″ beyond jamb.

Furnished on order without offset where there is no trim to clear.

BB169 is highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Hinges on Kalamein Doors with Channel Iron Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Offset of Jamb Leaf (Inches) (D)	Quantity and Size of OH Machine Screws	Quantity and Size of OH Machine Screws with Grommet Nuts	Average Net Weight Per 100 Pairs (Lbs.)	
						Jamb Leaf	Door Leaf	Bronze	Steel
4½	.180	1½	2 9/16	1	7/8	3–½ x 12-24	3–2¼ x ¼-20	410	380
5	.190	1½	2 7/8	1	7/8	4–½ x 12-24	4–2¼ x ¼-20	522	484
6	.203	1½	3¼	1⅛	1	4–½ x ¼-20	5–2½ x ¼-20	595	550

One pair in a box with machine screws and grommet nuts. 4½″ and 5″ packed with bolts for doors 1¾″ in thickness; 6″ for doors 2″ in thickness.

Finishes described on page 25

Specify Class Number, Finish and Size

Use Three Hinges to a Door

Regular Weight Full Surface Ball Bearing Hinges

Template

Five Knuckles — Non-Rising Loose Pin — Ball Tips

For Kalamein Doors with Channel Iron Jambs

Wrought Bronze or Brass

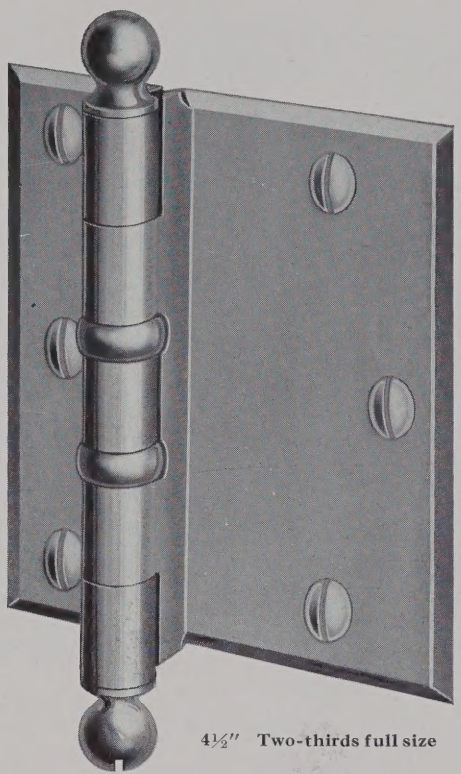
Polished and Highly Finished

BB110 Template

Wrought Steel

Highly Polished and Heavily Plated

BB170 Template



4½″ Two-thirds full size

Wrought Steel

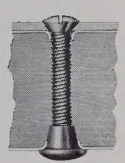
Planished and Plated

BB171 Template

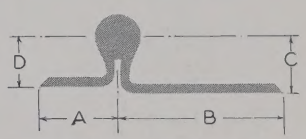
For Painting

BB131 Template

Button Tips
Furnished with BB131
Other numbers on order



Section showing application of machine screw and grommet nut to a kalamein door



See table for measurements.
For application, see page 19

For medium weight doors receiving average frequency service.

Made of wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves of wrought bronze, brass and highly polished steel hinges are beveled to make close-fitting joints. On hinges for painting, the inner edges of the leaves are milled back, allowing sufficient paint clearance.

Equipped with two Stanley Non-Detachable Ball Bearings.

Door leaf extends ⅛″ beyond the jamb leaf allowing the door to set in ⅛″ beyond jamb.

Furnished on order without offset where there is no trim to clear.

BB170 is highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Hinges on Kalamein Doors with Channel Iron Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Offset of Jamb Leaf (Inches) (D)	Quantity and Size of OH Machine Screws	Quantity and Size of OH Machine Screws with Grommet Nuts	Average Net Weight Per 100 Pairs (Lbs.)	
						Jamb Leaf	Door Leaf	Bronze	Steel
4½	.134	1½	2 9/16	15/16	13/16	3–½ x 12-24	3–2 x ¼-20	306	283
5	.146	1½	2 7/8	1	7/8	4–½ x 12-24	4–2 x ¼-20	402	372

One pair in a box with machine screws and grommet nuts. Packed with bolts for doors 1¾″ in thickness.

Finishes described on page 25

Specify Class Number, Finish, Size and Thickness of Door over 1¾″

Use Three Hinges to a Door

Extra Heavy Full Surface Ball Bearing Hospital Hinges

Template

Five Knuckles

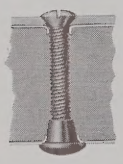
Fast Pin

For Kalamein Doors with Channel Iron Jambs

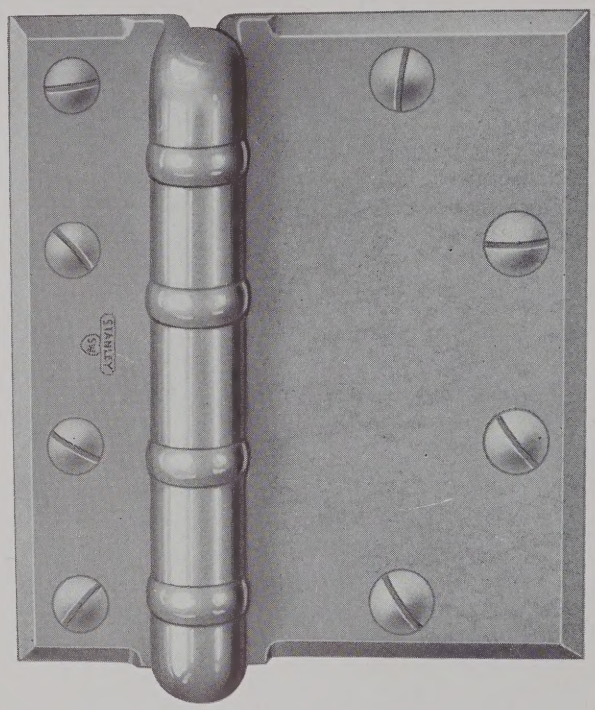
Wrought Bronze or Brass

Polished and Highly Finished

HTBB109 Template



Section showing application of machine screw and grommet nut to a kalamein door



5″ Two-thirds full size

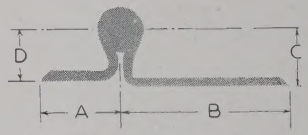
Wrought Steel

Highly Polished and Heavily Plated

HTBB169 Template

For Painting

HTBB129 Template



See table for measurements. For application, see page 19

For heavy doors or doors where high frequency service is expected in hospitals, institutions, etc.

Made of extra heavy wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

The ends of the barrel are rounded, making it impossible to attach ropes, wearing apparel, etc. Easily kept free from dust and dirt. If desired for penal institutions, etc., they can be furnished with pin welded to the barrel at both ends. Suffix symbol "WDP."

Equipped with four Stanley Ball Bearings.

Door leaf extends ⅛″ beyond jamb leaf, allowing door to set in ⅛″ beyond jamb.

Furnished on order without offset where there is no trim to clear.

HTBB169 is highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Hinges on Kalamein Doors with Channel Iron Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Offset of Jamb Leaf (Inches) (D)	Quantity and Size of OH Machine Screws	Quantity and Size of OH Machine Screws with Grommet Nuts	Average Net Weight Per 100 Pairs (Lbs.)	
						Jamb Leaf	Door Leaf	Bronze	Steel
4½	.180	1½	2 9/16	1	⅞	3–½ x 12-24	3–2¼ x ¼-20	330	306
5	.190	1½	2⅞	1	⅞	4–½ x 12-24	4–2¼ x ¼-20	421	390
6	.203	1½	3¼	1⅛	1	4–½ x ¼-20	5–2½ x ¼-20	479	443

One pair in a box with machine screws and grommet nuts. 4½″ and 5″ packed with bolts for doors 1¾″ in thickness; 6″ for doors 2″ in thickness.

Finishes described on page 25

Specify Class Number, Finish and Size

Use Three Hinges to a Door

Regular Weight Full Surface Ball Bearing Hospital Hinges

Template

Five Knuckles

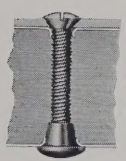
Fast Pin

For Kalamein Doors with Channel Iron Jambs

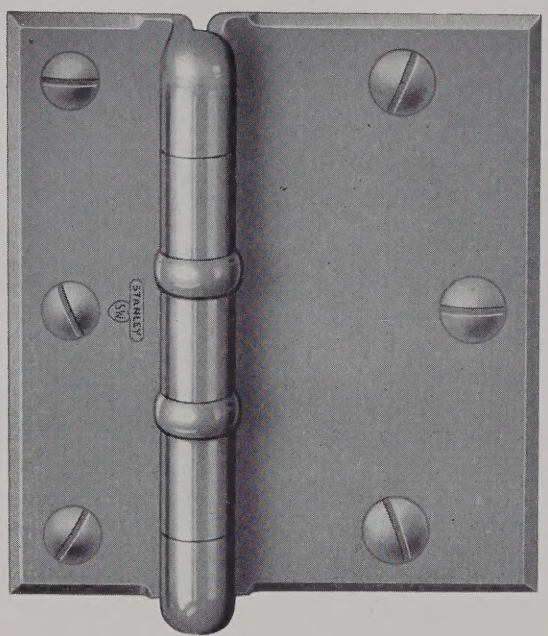
Wrought Bronze or Brass

Polished and Highly Finished

HTBB110 Template



Section showing application of machine screw and grommet nut to a kalamein door



4½" Two-thirds full size

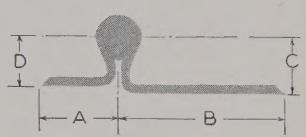
Wrought Steel

Highly Polished and Heavily Plated

HTBB170 Template

For Painting

HTBB134 Template



See table for measurements. For application, see page 19

For medium weight doors receiving average frequency service in hospitals, institutions, etc.

Made of wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

The ends of the barrel are rounded, making it impossible to attach ropes, wearing apparel, etc. Easily kept free from dust and dirt. If desired for penal institutions, etc., they can be furnished with pin welded to the barrel at both ends. Suffix symbol "WDP."

Equipped with two Stanley Ball Bearings.

Door leaf extends ⅛" beyond jamb leaf, allowing door to set in ⅛" beyond jamb.

Furnished on order without offset where there is no trim to clear.

HTBB170 is highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Hinges on Kalamein Doors with Channel Iron Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Offset of Jamb Leaf (Inches) (D)	Quantity and Size of OH Machine Screws	Quantity and Size of OH Machine Screws with Grommet Nuts	Average Net Weight Per 100 Pairs (Lbs.)	
						Jamb Leaf	Door Leaf	Bronze	Steel
4½	.134	1½	2 9/16	15/16	13/16	3–½ x 12-24	3–2 x ¼-20	263	243
5	.146	1½	2 7/8	1	7/8	4–½ x 12-24	4–2 x ¼-20	341	316

One pair in a box with machine screws and grommet nuts. Packed with bolts for doors 1¾" in thickness.

Finishes described on page 25

Specify Class Number, Finish, Size and Thickness of Door over 1¾"

Use Three Hinges to a Door

Extra Heavy Full Surface Ball Bearing Hinges

Template

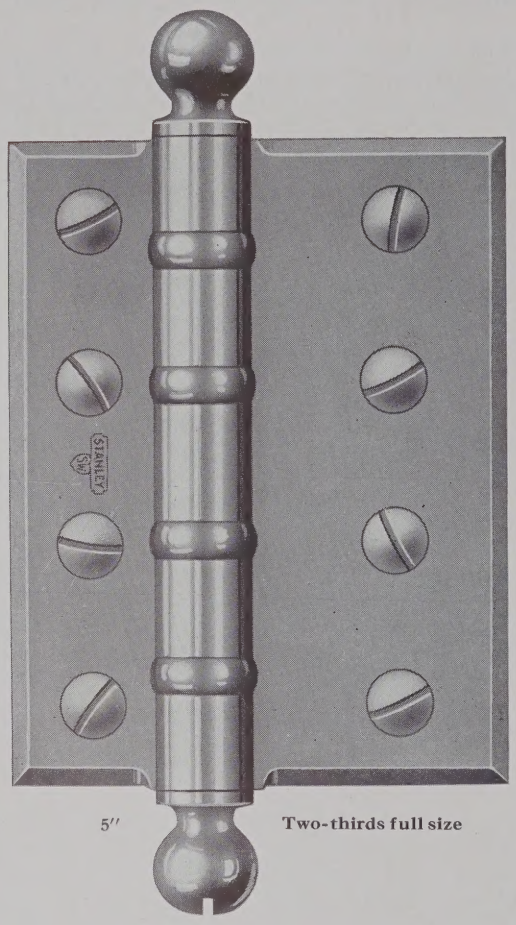
Five Knuckles — Non-Rising Loose Pin — Ball Tips

For Tubular Steel Doors with Channel Iron Jambs

Wrought Bronze or Brass

Polished and Highly Finished

BB1091/2 Template



5″ — Two-thirds full size

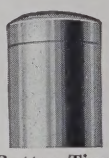
Wrought Steel

Highly Polished and Heavily Plated

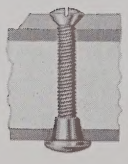
BB1691/2 Template

For Painting

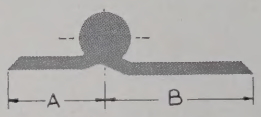
BB1291/2 Template



Button Tips
Furnished with BB1291/2
Other numbers on order



Section showing application of machine screw and grommet nut to a tubular steel door



See table for measurements. For application, see page 19

For tubular steel doors.

Made of extra heavy wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

Equipped with four Stanley Non-Detachable Ball Bearings.

Door leaf extends 1/8″ beyond jamb leaf, allowing door to set in 1/8″ beyond jamb. The barrel is slightly raised to provide clearance for the tips and ball bearings.

BB1691/2 is highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Hinges on Tubular Steel Doors with Channel Iron Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Quantity and Size of OH Machine Screws	Quantity and Size of OH Machine Screws with Grommet Nuts	Average Net Weight Per 100 Pairs (Lbs.)	
				Jamb Leaf	Door Leaf	Bronze	Steel
4½	.180	1½	2	4–5/8 x 1/4-20	4–2 x 1/4-20	305	283
5	.190	1½	2 5/16	4–5/8 x 1/4-20	4–2 x 1/4-20	388	360
6	.203	1½	2 3/8	4–5/8 x 1/4-20	4–2 x 1/4-20	442	409

One pair in a box with machine screws and grommet nuts. Packed with bolts for doors up to 1½″ in thickness.

Finishes described on page 25

Specify Class Number, Finish, Size, and Thickness of Door over 1½″

Use Three Hinges to a Door

Extra Heavy Full Surface Ball Bearing Hospital Hinges

Template

Five Knuckles

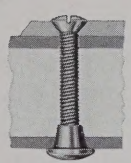
Fast Pin

For Tubular Steel Doors with Channel Iron Jambs

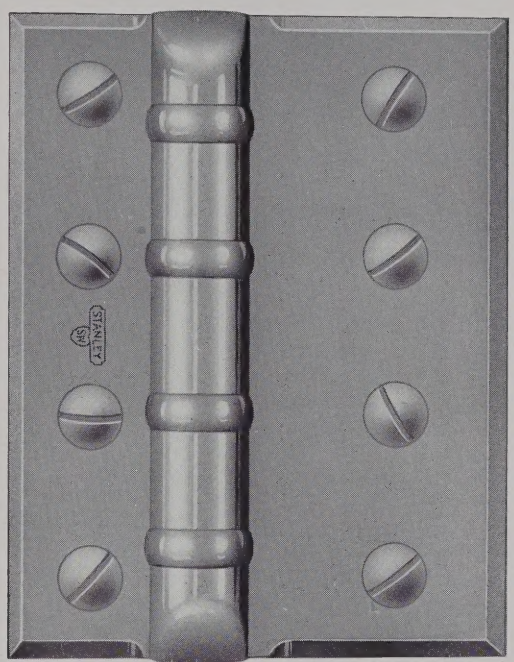
Wrought Bronze or Brass

Polished and Highly Finished

HTBB1091/2 Template



Section showing application of machine screw and grommet nut to a tubular steel door



5″ Two-thirds full size

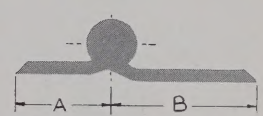
Wrought Steel

Highly Polished and Heavily Plated

HTBB1691/2 Template

For Painting

HTBB1291/2 Template



See table for measurements. For application, see page 19

For tubular steel doors in hospitals, institutions, etc.

Made of extra heavy wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

The ends of the barrel are rounded, making it impossible to attach ropes, wearing apparel, etc. Easily kept free from dust and dirt. If desired for penal institutions, etc., they can be furnished with pin welded to the barrel at both ends. Suffix symbol "WDP."

Equipped with four Stanley Ball Bearings.

Door leaf extends 1/8″ beyond jamb leaf, allowing door to set in 1/8″ beyond jamb. The barrel is slightly raised to provide clearance for the ball bearings.

HTBB1691/2 is highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Hinges on Tubular Steel Doors with Channel Iron Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Quantity and Size of OH Machine Screws	Quantity and Size of OH Machine Screws with Grommet Nuts	Average Net Weight Per 100 Pairs (Lbs.)	
				Jamb Leaf	Door Leaf	Bronze	Steel
4 1/2	.180	1 1/2	2	4–5/8 x 1/4-20	4–2 x 1/4-20	277	257
5	.190	1 1/2	2 5/16	4–5/8 x 1/4-20	4–2 x 1/4-20	351	326
6	.203	1 1/2	2 3/8	4–5/8 x 1/4-20	4–2 x 1/4-20	400	370

One pair in a box with machine screws and grommet nuts. Packed with bolts for doors up to 1 1/2″ in thickness.

Finishes described on page 25

Specify Class Number, Finish, Size and Th'ckness of Door over 1 1/2″

Use Three Hinges to a Door

Extra Heavy Half Surface Ball Bearing Butt Hinges

Template

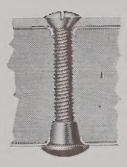
Five Knuckles — Non-Rising Loose Pin — Ball Tips

For Kalamein Doors with Pressed Steel Jambs

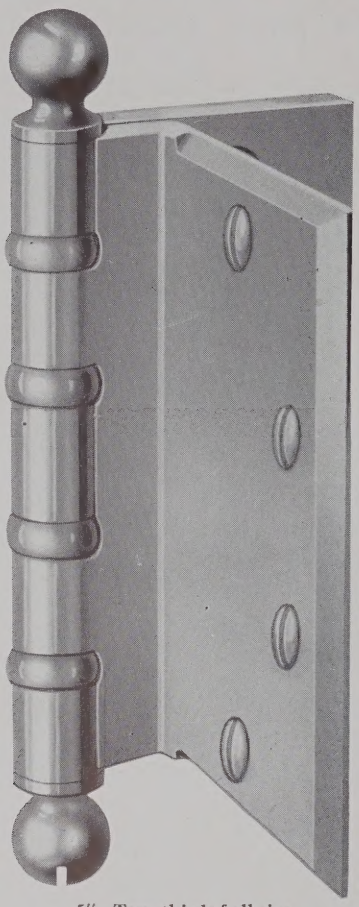
Wrought Bronze or Brass

Polished and Highly Finished

BB113 Template



Section showing application of machine screw and grommet nut to a kalamein door



5″ Two-thirds full size

Wrought Steel

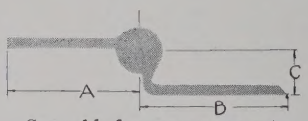
Highly Polished and Heavily Plated

BB163 Template

For Painting

BB123 Template

Button Tips
Furnished with BB123
Other numbers on order



See table for measurements. For application, see page 19

For heavy doors or doors where high frequency service is expected. Also for doors to X-ray rooms.

Made of extra heavy wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

Equipped with four Stanley Non-Detachable Ball Bearings.

Furnished on order without offset where there is no trim to clear. Specify thickness of door.

BB163 is highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Kalamein Doors with Pressed Steel Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Quantity and Size of FH Machine Screws	Quantity and Size of OH Machine Screws with Grommet Nuts	Average Net Weight Per 100 Pairs (Lbs.)	
					Jamb Leaf	Door Leaf	Bronze	Steel
4½	.180	2½	2 9/16	1	4–½ x 12-24	3–2¼ x ¼-20	400	368
5	.190	2½	2 7/8	1	4–½ x 12-24	4–2¼ x ¼-20	500	460
6	.203	3	3¼	1⅛	5–½ x ¼-20	5–2½ x ¼-20	575	525

One pair in a box with machine screws and grommet nuts. 4½″ and 5″ packed with bolts for doors 1¾″ in thickness; 6″ for doors 2″ in thickness.

Finishes described on page 25

Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

Regular Weight Half Surface Ball Bearing Butt Hinges

Template and Non-Template

Five Knuckles — Non-Rising Loose Pin — Ball Tips

For Kalamein Doors with Pressed Steel or Kalamein Jambs

Wrought Bronze or Brass

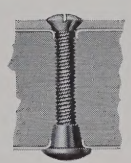
Polished and Highly Finished

BB112 Template
BB116 Non-Template

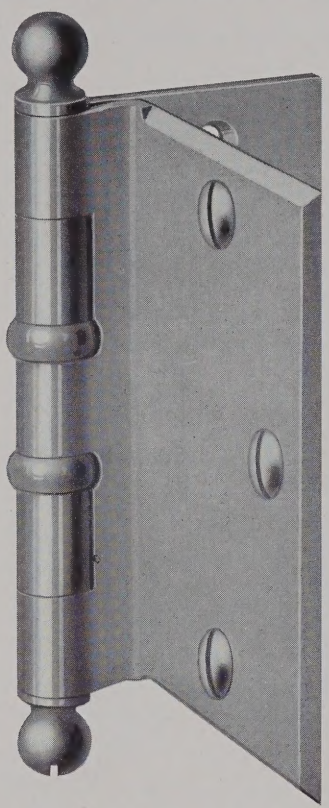
Wrought Steel

Highly Polished and Heavily Plated

BB172 Template
BB162 Non-Template



Section showing application of machine screw and grommet nut to a kalamein door



4½" (Template) Two-thirds full size

Wrought Steel

Polished and Plated

BB173½ Template
BB165½ Non-Template

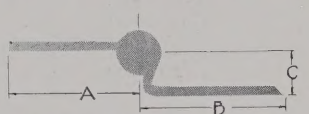
Planished and Plated

BB173 Template
BB165 Non-Template

For Painting

BB133 Template
BB125 Non-Template

Button Tips
Furnished with BB133 and BB125
Other numbers on order



See table for measurements.
For application, see page 19

For medium weight doors receiving average frequency service.

Made of wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves of bronze, brass and highly polished steel butt hinges are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back, allowing sufficient paint clearance.

Equipped with two Stanley Non-Detachable Ball Bearings.

Furnished on order without offset where there is no trim to clear. Specify thickness of door.

BB172 and BB162 are highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Kalamein Doors with Pressed Steel Jambs.
Use Non-Template Butt Hinges on Kalamein Doors with Kalamein Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Quantity and Size of FH Machine Screws	Quantity and Size of Wood Screws	Quantity and Size of OH Machine Screws with Grommet Nuts	Average Net Weight Per 100 Pairs (Lbs.)	
					Jamb Leaf		Door Leaf	Bronze	Steel
					Template	Non-Template			
3	.092	1½	1 13/16	9/16	3–½ x 10-24	3– ¾ x 8	3–1½ x 10-24	100	93
3½	.123	1¾	2 1/8	11/16	3–½ x 10-24	3–1 x 9	3–1¾ x 10-24	168	156
4	.130	2	2 ¼	11/16	4–½ x 12-24	4–1 x 10	3–2 x ¼-20	218	202
4½	.134	2¼	2 9/16	¾	4–½ x 12-24	4–1¼ x 10	3–2 x ¼-20	280	260
5	.146	2½	2 7/8	1	4–½ x 12-24	5–1¼ x 12	4–2 x ¼-20	375	350

One pair in a box with machine screws for template butt hinges or wood screws for non-template butt hinges for jamb leaf; machine screws with grommet nuts for door leaf. 4" and larger packed with bolts for doors 1¾" in thickness.

Finishes described on page 25

Specify Class Number, Finish, Size and Thickness of Door over 1¾"

Use Three Butt Hinges to a Door

Extra Heavy Half Surface Ball Bearing Hospital Butt Hinges

Template

Five Knuckles

Fast Pin

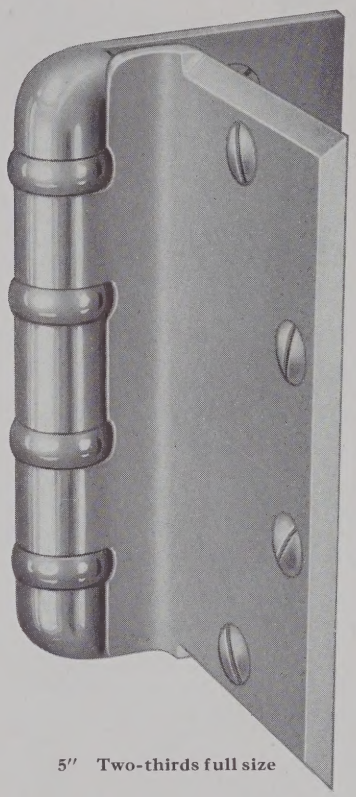
For Kalamein Doors with Pressed Steel Jambs

Wrought Bronze or Brass

Polished and Highly Finished

HTBB113 Template

Section showing application of machine screw and grommet nut to a kalamein door



5″ Two-thirds full size

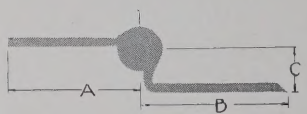
Wrought Steel

Highly Polished and Heavily Plated

HTBB163 Template

For Painting

HTBB123 Template



See table for measurements. For application, see page 19

For heavy doors or doors where high frequency service is expected in hospitals, institutions, etc. Also for doors to X-ray rooms.

Made of extra heavy wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

The ends of the barrel are rounded, making it impossible to attach ropes, wearing apparel, etc. Easily kept free from dust and dirt. If desired for penal institutions, etc., they can be furnished with pin welded to the barrel at both ends. Suffix symbol "WDP." Equipped with four Stanley Ball Bearings.

Furnished on order without offset where there is no trim to clear. Specify thickness of door.

HTBB163 is highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Kalamein Doors with Pressed Steel Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Quantity and Size of FH Machine Screws	Quantity and Size of OH Machine Screws with Grommet Nuts	Average Net Weight Per 100 Pairs (Lbs.)	
					Jamb Leaf	Door Leaf	Bronze	Steel
4½	.180	2½	2 9/16	1	4–½ x 12-24	3–2¼ x ¼-20	363	334
5	.190	2½	2⅞	1	4–½ x 12-24	4–2¼ x ¼-20	456	418
6	.203	3	3¼	1⅛	5–½ x ¼-20	5–2½ x ¼-20	518	477

One pair in a box with machine screws and grommet nuts. 4½″ and 5″ packed with bolts for doors 1¾″ in thickness; 6″ for doors 2″ in thickness.

Finishes described on page 25

Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

Regular Weight Half Surface Ball Bearing Hospital Butt Hinges

Template and Non-Template

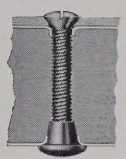
Five Knuckles — Fast Pin

For Kalamein Doors with Pressed Steel or Kalamein Jambs

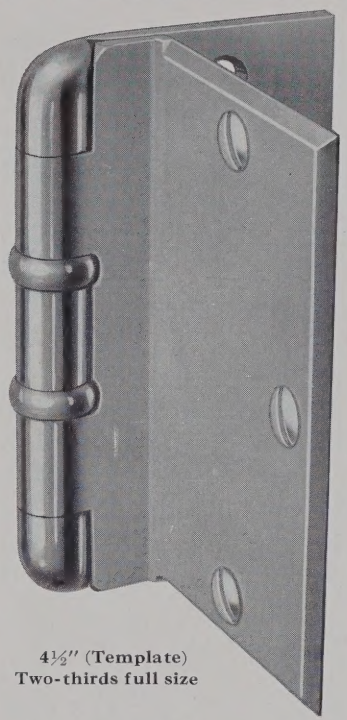
Wrought Bronze or Brass

Polished and Highly Finished

HTBB112 Template
HTBB116 Non-Template



Section showing application of machine screw and grommet nut to a kalamein door



4½" (Template)
Two-thirds full size

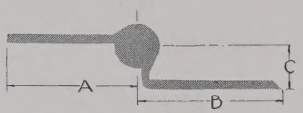
Wrought Steel

Highly Polished and Heavily Plated

HTBB172 Template
HTBB162 Non-Template

For Painting

HTBB132 Template
HTBB126 Non-Template



See table for measurements.
For application, see page 19

For medium weight doors receiving average frequency service in hospitals, institutions, etc.

Made of wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

The ends of the barrel are rounded, making it impossible to attach ropes, wearing apparel, etc. Easily kept free from dust and dirt. If desired for penal institutions, etc., they can be furnished with pin welded to the barrel at both ends. Suffix symbol "WDP." Equipped with two Stanley Ball Bearings.

Furnished on order without offset where there is no trim to clear. Specify thickness of door.

HTBB172 and HTBB162 are highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Kalamein Doors with Pressed Steel Jambs.
Use Non-Template Butt Hinges on Kalamein Doors with Kalamein Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Quantity and Size of FH Machine Screws		Quantity and Size of Wood Screws		Quantity and Size of OH Machine Screws with Grommet Nuts	Average Net Weight Per 100 Pairs (Lbs.)	
					Jamb Leaf		Jamb Leaf		Door Leaf	Bronze	Steel
					Template		Non-Template				
3	.092	1½	1 13/16	9/16	3–½ x 10-24		3– ¾ x 8		3–1½ x 10-24	94	87
3½	.123	1¾	2 ⅛	11/16	3–½ x 10-24		3–1 x 9		3–1¾ x 10-24	156	145
4	.130	2	2 ¼	11/16	4–½ x 12-24		4–1 x 10		3–2 x ¼-20	205	190
4½	.134	2¼	2 9/16	¾	4–½ x 12-24		4–1¼ x 10		3–2 x ¼-20	258	240
5	.146	2½	2 ⅞	1	4–½ x 12-24		5–1¼ x 12		4–2 x ¼-20	357	333

One pair in a box with machine screws for template butt hinges or wood screws for non-template butt hinges for jamb leaf; machine screws with grommet nuts for door leaf. 4" and larger packed with bolts for doors 1¾" in thickness.

Finishes described on page 25

Specify Class Number, Finish, Size and Thickness of Door over 1¾"

Use Three Butt Hinges to a Door

COLUMBIA WARE MEMORIAL LIBRARY UNIVERSITY

Extra Heavy Half Mortise Ball Bearing Butt Hinges

Template

Five Knuckles

Non-Rising Loose Pin

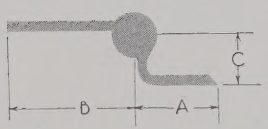
Ball Tips

For Hollow Metal Doors with Channel Iron Jambs

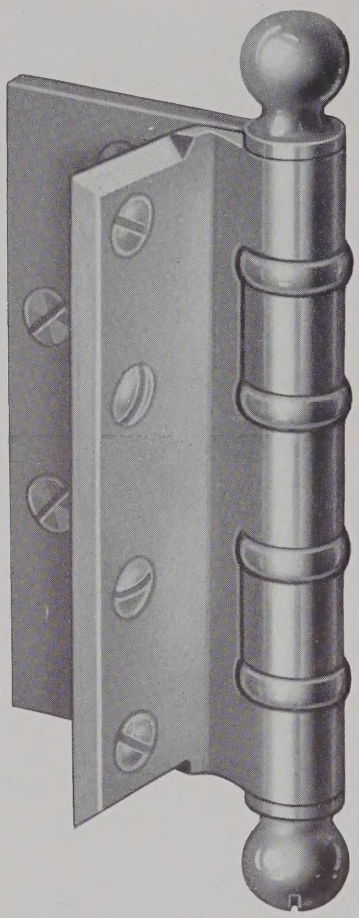
Wrought Bronze or Brass

Polished and Highly Finished

BB98 Template



See table for measurements.
For application, see page 19



5″ Two-thirds full size

Wrought Steel

Highly Polished and Heavily Plated

BB138 Template

For Painting

BB114 Template

Button Tips
Furnished with BB114
Other numbers on order

For heavy doors or doors where high frequency service is expected.

Made of extra heavy wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

Equipped with four Stanley Non-Detachable Ball Bearings.

Furnished on order without offset where there is no trim to clear. Specify thickness of door.

BB138 is highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Hollow Metal Doors with Channel Iron Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Jamb Leaf (Inches) (C)	Quantity and Size of OH Machine Screws	Quantity and Size of FH Machine Screws	Average Net Weight Per 100 Pairs (Lbs.)	
					Jamb Leaf	Door Leaf	Bronze	Steel
4½	.180	1½	2¼	⅞	3–½ x 12-24	4–½ x 12-24	340	285
5	.190	1½	2½	⅞	4–½ x 12-24	4–½ x 12-24	410	362
6	.203	1½	3	1	4–½ x ¼-20	5–½ x ¼-20	609	550

One pair in a box with machine screws.

Finishes described on page 25.

Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

Regular Weight Half Mortise Ball Bearing Butt Hinges

Template

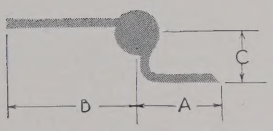
Five Knuckles — Non-Rising Loose Pin — Ball Tips

For Hollow Metal Doors with Channel Iron Jambs

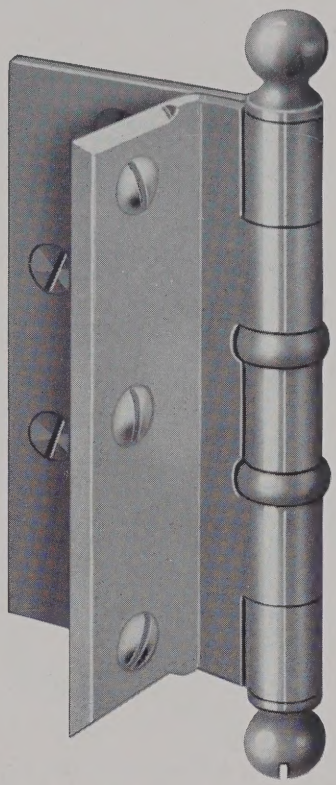
Wrought Bronze or Brass

Polished and Highly Finished

BB108 Template



See table for measurements.
For application, see page 19



4½" Two-thirds full size

Wrought Steel

Highly Polished and Heavily Plated

BB167½ Template

Planished and Plated

BB167 Template

For Painting

BB128 Template

Button Tips
Furnished with BB128
Other numbers on order

For medium weight doors receiving average frequency service.

Made of wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except BB128 and BB167) are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

Equipped with two Stanley Non-Detachable Ball Bearings.

Furnished on order without offset where there is no trim to clear. Specify thickness of door.

BB167½ is highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Hollow Metal Doors with Channel Iron Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Jamb Leaf (Inches) (C)	Quantity and Size of OH Machine Screws	Quantity and Size of FH Machine Screws	Average Net Weight Per 100 Pairs (Lbs.)	
					Jamb Leaf	Door Leaf	Bronze	Steel
4½	.134	1½	2¼	13/16	3–½ x 12-24	4–½ x 12-24	260	237
5	.146	1½	2½	⅞	4–½ x 12-24	4–½ x 12-24	275	255

One pair in a box with machine screws.

Finishes described on page 25.

Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

Extra Heavy Half Mortise Ball Bearing Hospital Butt Hinges

Template

Five Knuckles

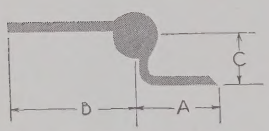
Fast Pin

For Hollow Metal Doors with Channel Iron Jambs

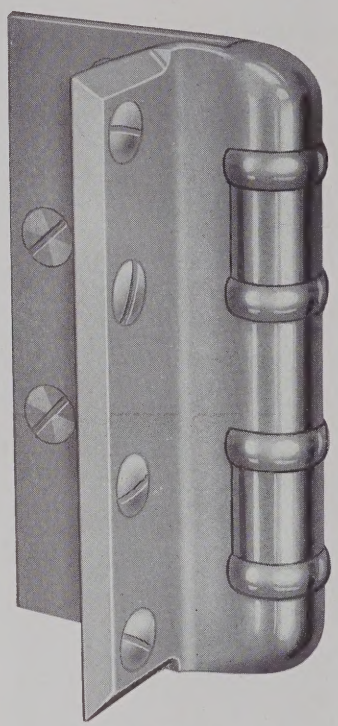
Wrought Bronze or Brass

Polished and Highly Finished

HTBB98 Template



See table for measurements.
For application, see page 19



5″ Two-thirds full size

Wrought Steel

Highly Polished and Heavily Plated

HTBB138 Template

For Painting

HTBB114 Template

For heavy doors or doors where high frequency service is expected in hospitals, institutions, etc.

Made of extra heavy wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

The ends of the barrel are rounded, making it impossible to attach ropes, wearing apparel, etc. Easily kept free from dust and dirt. If desired for penal institutions, etc., they can be furnished with pin welded to the barrel at both ends. Suffix symbol "WDP."

Equipped with four Stanley Ball Bearings.

Furnished on order without offset where there is no trim to clear. Specify thickness of door.

HTBB138 is highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Hollow Metal Doors with Channel Iron Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Jamb Leaf (Inches) (C)	Quantity and Size of OH Machine Screws	Quantity and Size of FH Machine Screws	Average Net Weight Per 100 Pairs (Lbs.)	
					Jamb Leaf	Door Leaf	Bronze	Steel
4½	.180	1½	2¼	⅞	3–½ x 12-24	4–½ x 12-24	298	250
5	.190	1½	2½	⅞	4–½ x 12-24	4–½ x 12-24	360	318
6	.203	1½	3	1	4–½ x ¼-20	5–½ x ¼-20	538	486

One pair in a box with machine screws.

Finishes described on page 25.

Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

Regular Weight Half Mortise Ball Bearing Hospital Butt Hinges

Template

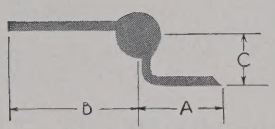
Five Knuckles — Fast Pin

For Hollow Metal Doors with Channel Iron Jambs

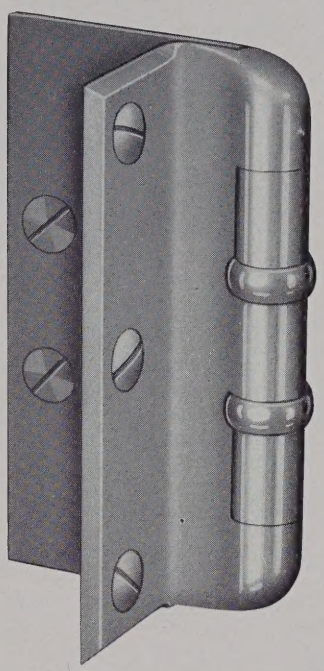
Wrought Bronze or Brass

Polished and Highly Finished

HTBB108 Template



See table for measurements.
For application, see page 19



4½" Two-thirds full size

Wrought Steel

Highly Polished and Heavily Plated

HTBB167½ Template

For Painting

HTBB128 Template

For medium weight doors receiving average frequency service in hospitals, institutions, etc.

Made of wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

The ends of the barrel are rounded, making it impossible to attach ropes, wearing apparel, etc. Easily kept free from dust and dirt. If desired for penal institutions, etc., they can be furnished with pin welded to the barrel at both ends. Suffix symbol "WDP."

Equipped with two Stanley Ball Bearings.

Furnished on order without offset where there is no trim to clear. Specify thickness of door.

HTBB167½ is highly polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Hollow Metal Doors with Channel Iron Jambs.

Size, Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Jamb Leaf (Inches) (C)	Quantity and Size of OH Machine Screws	Quantity and Size of FH Machine Screws	Average Net Weight Per 100 Pairs (Lbs.)	
					Jamb Leaf	Door Leaf	Bronze	Steel
4½	.134	1½	2¼	13/16	3–½ x 12-24	4–½ x 12-24	229	209
5	.146	1½	2½	⅞	4–½ x 12-24	4–½ x 12-24	243	225

One pair in a box with machine screws.

Finishes described on page 25.

Specify Class Number, Finish and Size

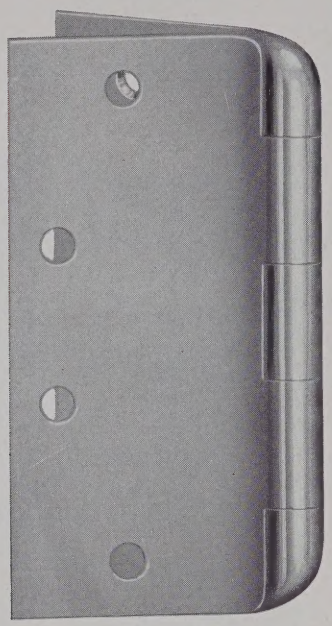
Use Three Butt Hinges to a Door

Regular Weight Hospital Butt Hinges

Template and Non-Template

Five Knuckles

Fast Pin



4½" x 4½" (Template) Two-thirds full size

Wrought Steel
Highly Polished and Heavily Plated
HT174 Template
HT239 Non-Template

Wrought Steel
For Painting
HT145 Template
HT235 Non-Template

For medium weight wood doors receiving infrequent service in hospitals, institutions, etc. Hollow metal doors should always be equipped with ball bearing butt hinges.

Made of wrought steel toughened and hardened by cold rolling. The inner edges of the leaves (except those for painting) are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back on a bevel, allowing sufficient paint clearance.

The ends of the barrel are rounded, making it impossible to attach ropes, wearing apparel, etc. Easily kept free from dust and dirt. If desired for penal institutions, etc., they can be furnished with pin welded to the barrel at both ends. Suffix symbol "WDP."

HT174 and HT239 are polished and copper plated before receiving final plated finish, insuring a high finish.

Use Template Butt Hinges on Wood Doors with Pressed Steel Jambs.
Use Non-Template Butt Hinges on Wood Doors with Wood Jambs.

Size Open (Inches)	Gauge of Metal	Quantity and Size of Screws		Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)
		Template			
		Machine	Wood	Non-Template	
3 x 3	.092	*3–½ x 10-24	3–1 x 8	6– ¾ x 8	70
3½ x 3½	.123	3–½ x 10-24	3–1 x 10	6–1 x 9	120
4 x 4	.130	4–½ x 12-24	4–1¼ x 12	8–1 x 10	170
4½ x 4½	.134	4–½ x 12-24	4–1¼ x 12	8–1¼ x 10	205
5 x 5	.146	4–½ x 12-24	4–1¼ x 12	10–1¼ x 12	271

One pair in a box; template with one-half machine screws and one-half wood screws; non-template with wood screws.

* No. 8 Head

Finishes described on page 25

Specify Class Number, Finish and Size

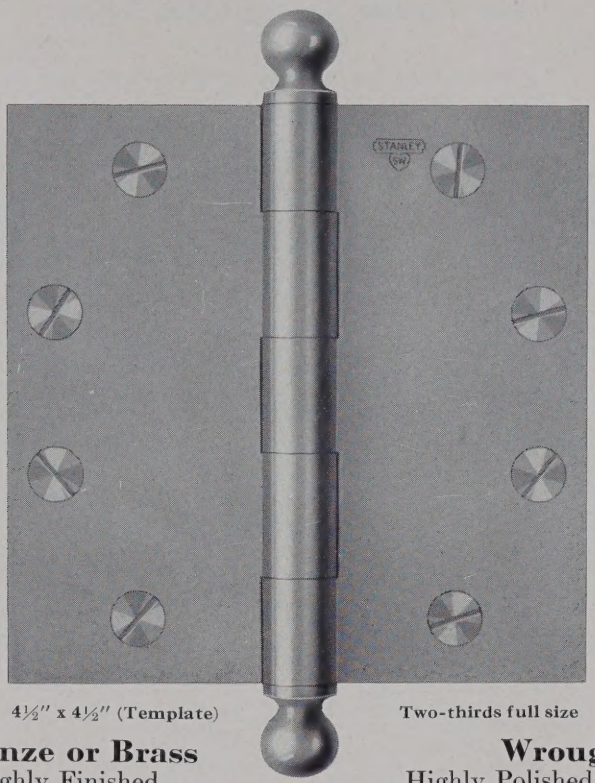
Use Three Butt Hinges to a Door

Regular Weight Butt Hinges

Template and Non-Template

Five Knuckles | Non-Rising Loose Pin | Ball Tips

Knuckles (cut open) showing steel bushing in 194-175



4½" x 4½" (Template) — Two-thirds full size

Button Tips
Furnished in place of ball tips on order

Wrought Bronze or Brass
Polished and Highly Finished
194 Template
175 Non-Template

Wrought Steel
Highly Polished and Heavily Plated
174 Template
239 Non-Template

For doors of residences and other medium weight wood doors receiving infrequent service, where the finest regular weight plain bearing butt hinge is desired. Hollow metal doors should always be equipped with ball bearing butt hinges.

Made of wrought bronze, brass or steel, toughened and hardened by cold rolling. The inner edges of the leaves are beveled to make close fitting joints.

194 and 175 (except sizes 2½" x 2½" and smaller) are equipped with case-hardened steel bushings (cadmium plated), which extend the entire length of each knuckle, reducing wear at the joints.

174 and 239 are highly polished and copper plated before receiving final plated finish, insuring a high finish.

Size 2" x 2" does not have the non-rising pin feature.

Use Template Butt Hinges on Wood Doors with Pressed Steel Jambs.
Use Non-Template Butt Hinges on Wood Doors with Wood Jambs.

Size Open (Inches)	Gauge of Metal	Quantity and Size of Screws — Template		Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	
		Machine	Wood	Non-Template	Bronze	Steel
2 x 2	.082	.....	.....	4– ¾ x 7	37	34
2½ x 2½	.089	3–½ x 8-32	3– ⅞ x 8	6– ¾ x 8	66	56
3 x 3	.092	*3–½ x 10-24	3–1 x 8	6– ¾ x 8	100	82
3½ x 3½	.123	3–½ x 10-24	3–1 x 10	6–1 x 9	145	136
4 x 4	.130	4–½ x 12-24	4–1¼ x 12	8–1 x 10	193	180
4½ x 4½	.134	4–½ x 12-24	4–1¼ x 12	8–1¼ x 10	255	226
5 x 5	.146	4–½ x 12-24	4–1¼ x 12	10–1¼ x 12	336	307
6 x 6	.160	.....	.....	10–1½ x 14	515	470

2½" x 2½" and smaller three pairs in a box; larger sizes one pair; template with one-half machine screws and one-half wood screws; non-template with wood screws. Finishes described on page 25.

*No. 8 Head

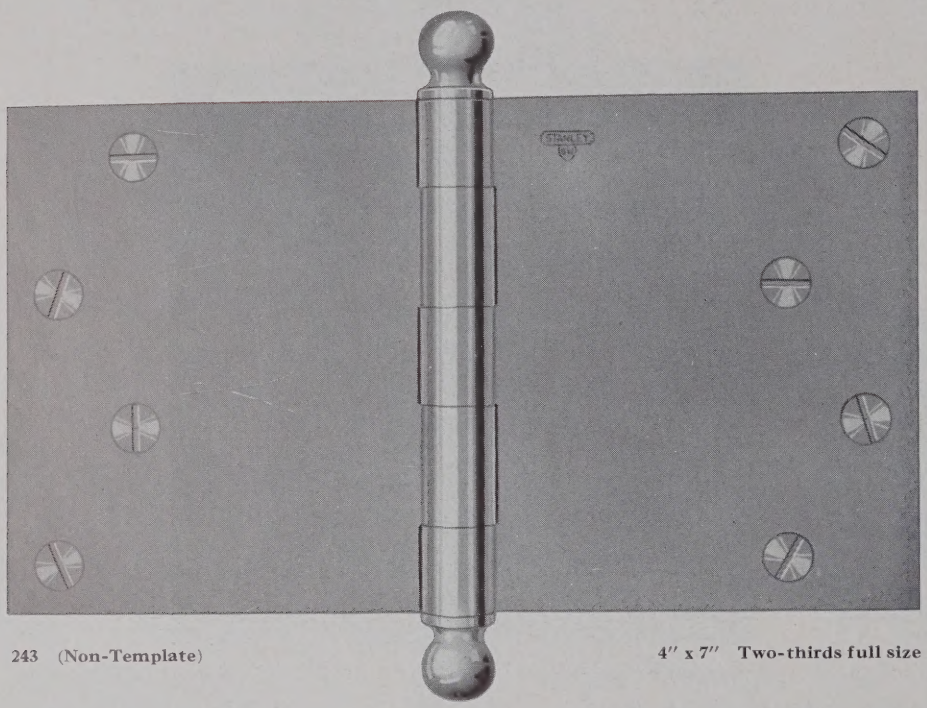
Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

Regular Weight Butt Hinges

Five Knuckles — Non-Rising Loose Pin — Ball Tips

For Folding or Accordion Doors



243 (Non-Template) — 4″ x 7″ Two-thirds full size

Button Tips
Furnished in place of ball tips on order

Wrought Steel

Planished and Plated

243 Plain Bearing — **BB243** Ball Bearing

For wood doors where a wide throw or clearance is required to fold the doors parallel against the wall.
Made of wrought steel, toughened and hardened by cold rolling.
BB243. Equipped with two Stanley Non-Detachable Ball Bearings.

Size Open (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)
3 x 4	.092	6– ¾ x 8	97
3 x 6	.092	6– ¾ x 8	127
3½ x 5	.123	6–1 x 9	167
3½ x 6	.123	6–1 x 9	188
4 x 5	.130	8–1 x 10	210
4 x 6	.130	8–1 x 10	240
4 x 7	.130	8–1 x 10	270
4½ x 5	.134	8–1¼ x 10	243
4½ x 6	.134	8–1¼ x 10	271
4½ x 7	.134	8–1¼ x 10	311
4½ x 8	.134	8–1¼ x 10	345
5 x 7	.146	10–1¼ x 12	390
5 x 8	.146	10–1¼ x 12	446

One pair in a box with wood screws.

Finishes described on page 25.

Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

Regular Weight Butt Hinges

Template and Non-Template

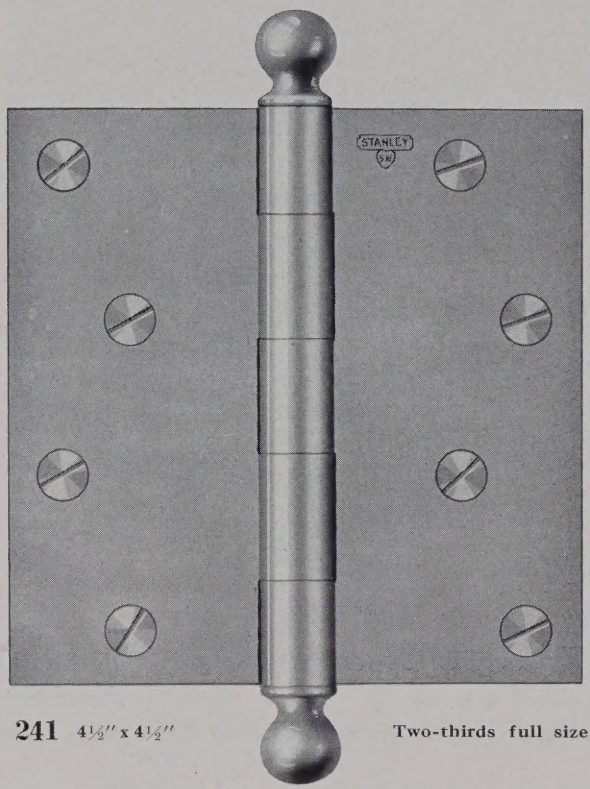
Five Knuckles — Non-Rising Loose Pin — Ball Tips

241

STANDARD of the WORLD for over FIFTY YEARS

Wrought Steel
Polished and Plated
179½ Template
241½ Non-Template

Wrought Steel
Planished and Plated
179 Template
241 Non-Template



241 4½″ x 4½″ — Two-thirds full size

Wrought Steel
For Painting
146 Template
242 Non-Template

Button Tips
Furnished with 146 and 242
Other numbers on order

For doors of residences and apartment houses, and other medium weight wood doors receiving infrequent service. Made of wrought steel, toughened and hardened by cold rolling. On butt hinges for painting, the inner edges of the leaves are milled back, allowing sufficient paint clearance.

Size 2″ x 2″ does not have the non-rising pin feature.

Use Template Butt Hinges on Wood Doors with Pressed Steel Jambs.
Use Non-Template Butt Hinges on Wood Doors with Wood Jambs.

Size Open (Inches)	Gauge of Metal	Quantity and Size of Screws — Template — Machine	Quantity and Size of Screws — Template — Wood	Quantity and Size of Wood Screws — Non-Template	Average Net Weight Per 100 Pairs (Lbs.)	Pairs in a Case — 241-241½-242	Average Case Weight (Lbs.)
2 x 2	.082	.....	.....	4– ¾ x 7	34	102	35
2½ x 2½	.089	3–½ x 8-32	3– ⅞ x 8	6– ¾ x 8	54	102	56
3 x 3	.092	*3–½ x 10-24	3–1 x 8	6– ¾ x 8	82	50	43
3½ x 3½	.123	3–½ x 10-24	3–1 x 10	6–1 x 9	136	50	70
4 x 4	.130	4–½ x 12-24	4–1¼ x 12	8–1 x 10	180	25	47
4½ x 4½	.134	4–½ x 12-24	4–1¼ x 12	8–1¼ x 10	226	25	59
5 x 5	.146	4–½ x 12-24	4–1¼ x 12	10–1¼ x 12	300	20	61
6 x 6	.160	.....	.....	10–1½ x 14	470	...	..

2½″ x 2½″ and smaller three pairs in a box; larger sizes one pair; template with one-half machine screws and one-half wood screws; non-template with wood screws.

*No. 8 Head

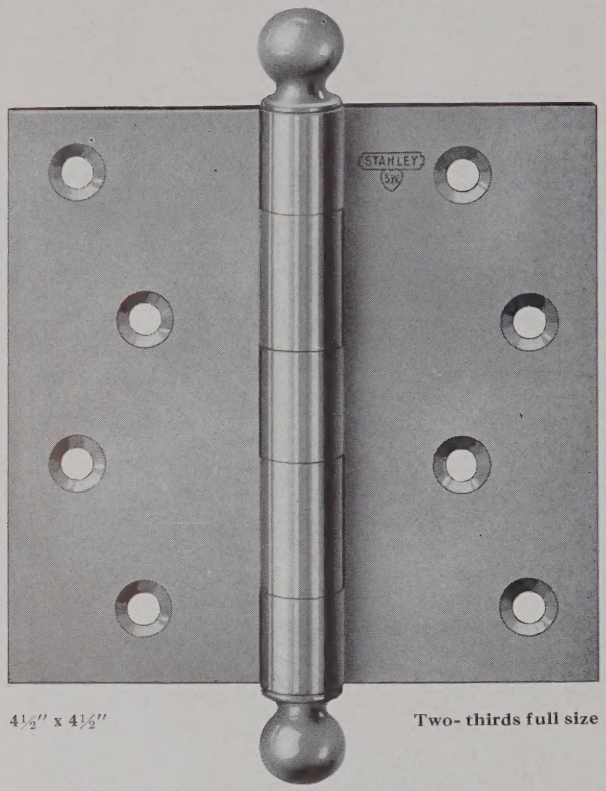
Finishes described on page 25

Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

Regular Weight Butt Hinges

Five Knuckles | Loose Pin | Ball Tips



4½" x 4½" — Two- thirds full size

Wrought Steel

731 Japanned without screws — **823 Plain Steel without screws**
823K Cadmium with wood screws — **Sc823 Plain Steel with wood screws**
1345 Galvanized with Brass Pin and Tips with wood screws

For medium weight wood doors receiving infrequent service, where a good practical steel butt hinge is desired.

Made of wrought steel, toughened and hardened by cold rolling.

Size Open (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	Average Net Weight Per 100 Pairs (Lbs.)	Dozen Pairs in a Case	Pairs in a Case	Average Case Weight (Lbs.)	
			731-823	Sc823-823K-1345	731-823	Sc823-1345	731-823	Sc823-1345
2 x 2	.082	4– ¾ x 7	4	34	...	..	..	..
2½ x 2	.089	6– ¾ x 8	5½	50	...	..	..	..
2½ x 2½	.089	6– ¾ x 8	6¼	56	...	..	..	..
3 x 2½	.092	6– ¾ x 8	7¾	...	...	50	..	38
3 x 3	.092	6– ¾ x 8	9½	82	5	50	50	43
3½ x 3	.123	6–1 x 9	14½	...	...	..	..	..
3½ x 3½	.123	6–1 x 9	15	136	5	50	76	70
4 x 4	.130	8–1 x 10	21½	180	3	25	66	47
4½ x 4½	.134	8–1¼ x 10	26½	226	2½	25	68	58
5 x 5	.146	10–1¼ x 12	35½	307	...	..	..	..
6 x 6	.160	10–1½ x 14	56	...	...	..	..	..

731-823—3½" x 3½" and smaller one-half dozen pairs in a box; larger sizes one-quarter dozen pairs, except 6" x 6", which is one-twelfth dozen pairs; without screws.
823K, Sc823, 1345—2½" x 2½" and smaller three pairs in a box; larger sizes one pair; with wood screws.

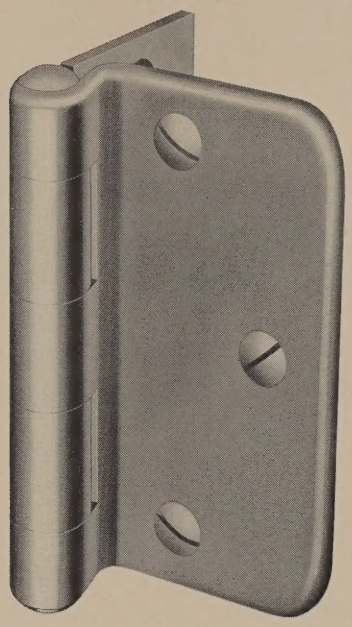
Specify Class Number and Size

Use Three Butt Hinges to a Door

Regular Weight Half Surface Butt Hinge

Streamlined

Five Knuckles | Reversible | Fast Pin



Three-quarters full size

Wrought Steel

164 Planished and Plated

164P For Painting

For wood doors of residences.

Door leaf has neatly rounded corners and convex edges—barrel has crowned ends.

Reversible for right or left hand without disassembling.

Speeds up application, as only the jamb leaf is mortised, no gauging necessary.

Made of wrought steel, toughened and hardened by cold rolling.

Length of Joint (Inches)	Gauge of Metal	Width of Jamb Leaf (Inches)	Width of Door Leaf (Inches)	Offset of Door Leaf (Inches)	Quantity and Size of Wood Screws		Average Net Weight Per 100 Pairs (Lbs.)	Pairs in a Case	Average Case Weight (Lbs.)
					FH for Jamb Leaf	OH for Door Leaf			
3½	.123	1¾	1 13/16	11/16	3–1 x 9	3–1 x 9	134	50	70

One pair in a box with wood screws.

Finishes described on page 25.

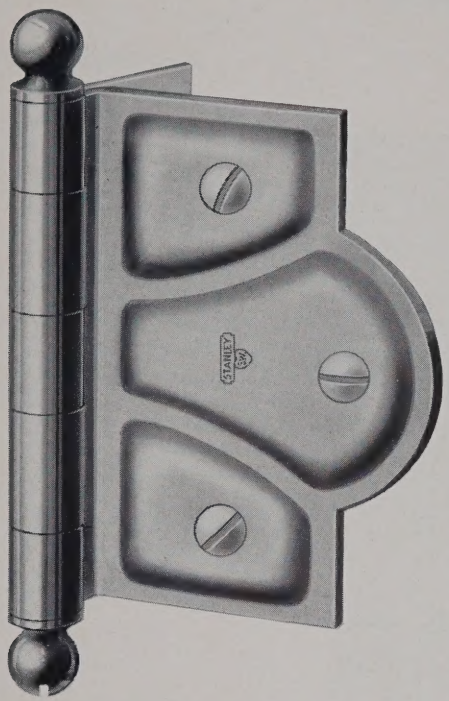
Specify Class Number and Finish

Use Three Butt Hinges to a Door

Printed in U. S. A.

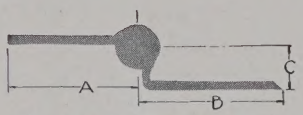
Regular Weight Half Surface Butt Hinges

Five Knuckles | Loose Pin | Ball Tips



3½" Three-quarters full size

For Wood Doors



See table for measurements

Button Tips
Furnished with 125
Other numbers on order

3½" Three-quarters full size

Wrought Steel

160 Planished and Plated

For doors of residences; smaller sizes recommended for cabinets.

Wrought Steel

165 Planished and Plated

125 For Painting. Made in sizes 3½", 4", 4½".

Kalamein doors should always be equipped with ball bearing butt hinges. **See page 43.**

Easily applied as only the jamb leaf is mortised, no gauging necessary.

Made of wrought steel, toughened and hardened by cold rolling.

Reversible for right or left hand doors by unscrewing the slotted tip, reversing the pin and applying tip to the opposite end.

Size 2" on 160 and size 1½" on 165 have three knuckles.

Size, Length of Joint (Inches) 160	165	Gauge of Metal	Width of Jamb Leaf (Inches) (A)	Width of Door Leaf (Inches) (B)	Offset of Door Leaf (Inches) (C)	Quantity and Size of Wood Screws: FH for Jamb Leaf	Quantity and Size of Wood Screws: OH for Door Leaf	Average Net Weight Per 100 Pairs (Lbs.)	Pairs in a Case	Average Case Weight (Lbs.)
—	1½	.055	¾	⅞	⅛	2– ¾ x 5	2– ⅝ x 5	15	. . .	. .
2	2	.065	1	1 ⅛	⅜	2– ¾ x 7	3– ¾ x 7	30	102	32
2½	2½	.075	1⅛	1 7/16	21/64	3– ¾ x 8	3– ¾ x 8	50	102	52
3	3	.092	1½	1 13/16	9/16	3– ¾ x 8	3– ¾ x 8	95	50	48
3½	3½	.123	1¾	2 ⅛	11/16	3–1 x 9	3–1 x 9	157	50	80
4	4	.130	2	2 ¼	11/16	4–1 x 10	4–1 x 10	207	25	53
—	4½	.134	2¼	2 9/16	¾	4–1¼ x 10	5–1¼ x 10	260	. . .	. .

2½" and smaller three pairs in a box; larger sizes one pair; with wood screws.

Finishes described on page 25

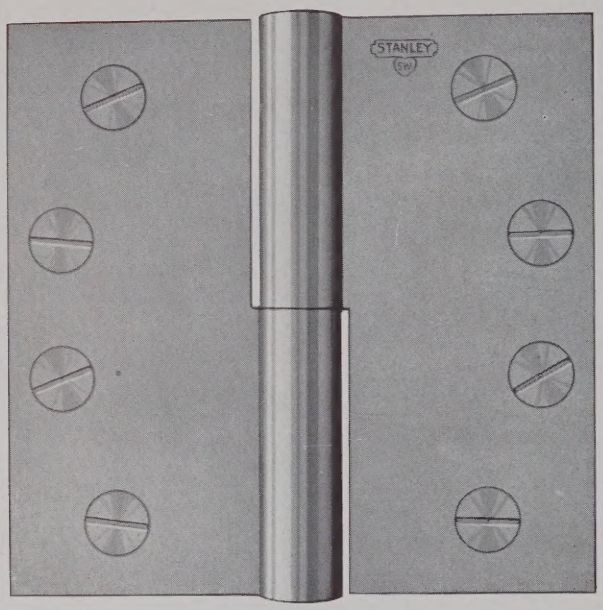
Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

Regular Weight Butt Hinges

Template and Non-Template

Loose Joint — Flush Ends — Specify Hand



4" x 4" (LH) (Template) — Three-quarters full size

Wrought Steel

For Painting

86 Template
216 Non-Template

For doors of residences and apartment houses.

Made of wrought steel, toughened and hardened by cold rolling. The inner edges of the leaves are milled back, allowing sufficient paint clearance.

There is no opening at the top or bottom of the barrel.

Use Template Butt Hinges on Wood Doors with Pressed Steel Jambs.
Use Non-Template Butt Hinges on Wood Doors with Wood Jambs.

Size Open (Inches)	Gauge of Metal	Quantity and Size of Screws — Template — Machine	Quantity and Size of Screws — Template — Wood	Quantity and Size of Wood Screws — Non-Template	Average Net Weight Per 100 Pairs (Lbs.)
3 x 3	.092	*3–½ x 10-24	3–1 x 8	6– ¾ x 8	79
3½ x 3½	.123	3–½ x 10-24	3–1 x 10	6–1 x 9	129
4 x 4	.130	4–½ x 12-24	4–1¼ x 12	8–1 x 10	171

One pair in a box; template with one-half machine screws and one-half wood screws; non-template with wood screws.

*No. 8 Head

Finish—Primed for painting

Specify Class Number, Size and (*Hand, see page* 17)

Use Three Butt Hinges to a Door

Transom Butt Hinges

Template and Non-Template

Five Knuckles

Fast Pin

Wrought Bronze or Brass

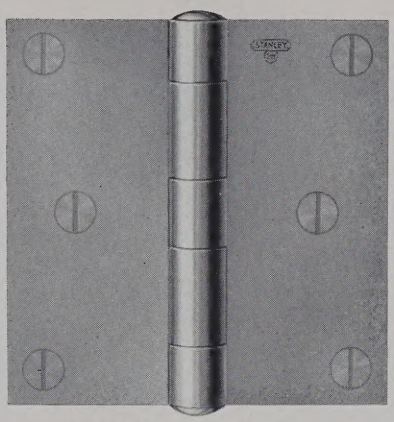
Finely Finished

196½ Template
192½ Non-Template

Wrought Steel

Polished and Plated

178½ Template
291½ Non-Template



3″ x 3″ (Template) Two-thirds full size

Wrought Steel

Planished and Plated

178 Template
291 Non-Template

For Painting

148 Template
290 Non-Template

For transoms.

Made of wrought bronze, brass or steel, toughened and hardened by cold rolling. Pins of nonferrous metal are used in the bronze and brass butt hinges.

The inner edges of the leaves of bronze and brass butt hinges are beveled to make close-fitting joints. On butt hinges for painting, the inner edges of the leaves are milled back, allowing sufficient paint clearance.

192½ and 196½, sizes 2″ x 2″ and 2½″ x 2½″, furnished on order.

Use Template Butt Hinges on Metal Transoms or Wood Transoms with Pressed Steel Frames.
Use Non-Template Butt Hinges on Wood Transoms with Wood Frames.

Size Open (Inches)	Gauge of Metal	Quantity and Size of Screws		Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)		Pairs in a Case	Average Case Weight (Lbs.)
		Template		Non-Template	Bronze	Steel	291	
		Machine	Wood					
2 x 2	.082	. . . . .	. . . . .	4– ¾ x 7	. . .	29	. .	. .
2½ x 2½	.089	3–½ x 8-32	3– ¾ x 8	6– ¾ x 8	. . .	51	60	32
3 x 3	.092	*3–½ x 10-24	3– ¾ x 8	6– ¾ x 8	84	72	60	45
3½ x 3½	.123	3–½ x 10-24	3–1 x 10	6–1 x 9	124	101	. .	. .
4 x 4	.130	4–½ x 12-24	4–1 x 12	8–1 x 10	168	135	. .	. .

3″ x 3″ and smaller three pairs in a box; larger sizes one pair; with screws.

When template butt hinges are ordered for hollow metal transoms with pressed steel frames, specify "all MS."

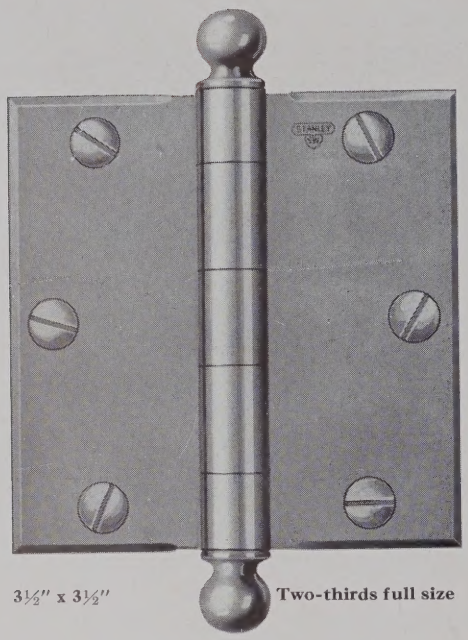
*No. 8 Head

Finishes described on page 25

Specify Class Number, Finish and Size

Regular Weight Full Surface Hinges

Five Knuckles | Loose Pin | Ball Tips



3½" x 3½" Two-thirds full size

Wrought Steel

166 Planished and Plated

For folding doors; smaller sizes recommended for cabinets.

Made of wrought steel, toughened and hardened by cold rolling.

Outer edges of the leaves are beveled, giving the hinge an attractive appearance.

Sizes 3″ x 3″ and larger are equipped with a non-rising pin.

Not Swaged

Size Open (Inches)	Gauge of Metal	Quantity and Size of OH Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)
1½ x 1½	.055	4– ⅝ x 5	15
2 x 2	.065	4– ¾ x 7	30
2½ x 2 13/16	.075	6– ¾ x 8	50
3 x 3	.092	6– ¾ x 8	80
3½ x 3½	.123	6–1 x 9	130
4 x 4	.130	8–1 x 10	183

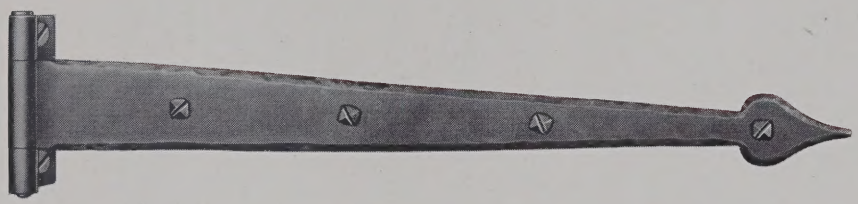
2½″ and smaller three pairs in a box; larger sizes one pair; with wood screws.

Finishes described on page 25

Specify Class Number, Finish and Size

Butt Strap Hinges

Three Knuckles — Loose Pin — Nail Head Tip



1858¼—13″ One-third full size

Wrought Steel

1858 Plain

1858¼ Hand-Hammered Edges

For doors and cabinets in residences. Especially recommended for doors in recreation rooms.

Sizes 6½″ and 8¾″ are for cabinet doors ¾″ to ⅞″ in thickness.

Sizes 9″ and 13″ are for batten doors ⅞″ and 1⅛″ in thickness. Also suitable for standard doors 1⅜″ in thickness.

Made of wrought steel, toughened and hardened by cold rolling.

Door leaf furnished with pyramid head wood screws to give the appearance of hand-hammered nails.

Can be applied either full surface or half surface. For full surface application, doors must set flush with the casing.

For thumb latch set to match, see page 161.

Hinge Straps of the same design furnished on order.

Size, Length of Door Leaf (Inches)	Length of Jamb Leaf (Inches)	Width of Jamb Leaf (Inches)	Width of Door Leaf at Joint (Inches)	Gauge of Metal	Quantity and Size of Wood Screws		Average Net Weight Per 100 Pairs (Lbs.)
					Pyramid Head for Door Leaf	Flat Head for Jamb Leaf	
6½	1¾	¾	13/16	.073	3–¾ x 5	2–¾x6	58
8¾	1¾	¾	13/16	.073	3–¾ x 5	2–¾x6	70
9	3	1⅛	1¼	.092	3–1¼ x 9	3–1 x 8	102
13	3	1⅛	1½	.104	4–1¼ x 9	3–1 x 8	165

One pair in a box with wood screws. Furnished in Dead Black (J1) or (KJ1) finish.

Specify Class Number, Finish and Size

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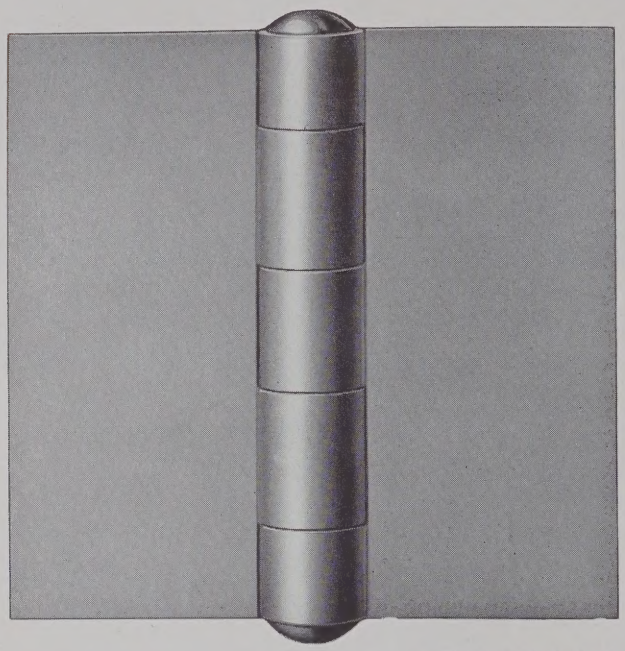
Extra Heavy Full Surface Hinges

Five Knuckles

Fast Pin



4½″ x 4½″

Two-thirds full size

Wrought Steel

850 Plain Steel

For detention window grilles, steel shutters, iron gates, etc.

Made of extra heavy wrought steel.

Not swaged, for full surface application; when desired for full mortise application, state on order "to be swaged."

Furnished without screw holes so they can be fitted in the shop or on the job to suit requirements.

Furnished on order with loose oval head pin without bottom tip.

Not Swaged

Size Open (Inches)	Gauge of Metal	Average Net Weight Per Dozen Pairs (Lbs.)
2 x 2	.107	4½
2½ x 2½	.119	8
3 x 3	.130	12
3½ x 3	.146	16
3½ x 3½	.146	17
4 x 3	.160	22
4 x 4	.160	25
4½ x 4½	.170	31
5 x 5	.180	36
6 x 6	.203	52

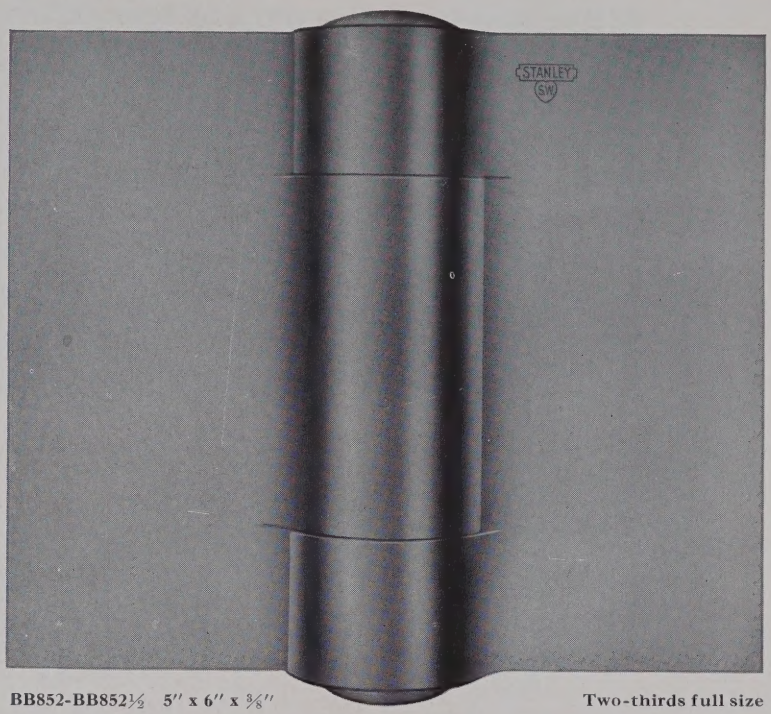
4″ x 4″ and smaller one-quarter dozen pairs in a box; larger sizes one-twelfth dozen pairs.

Specify Class Number and Size

Triple Weight Concealed Ball Bearing Hinges

Three Knuckles — **For Prison Doors** — Fast Pin

BB852-BB852½
Knuckles (cut open) showing interior construction



BB852-BB852½ 5″ x 6″ x ⅜″ — Two-thirds full size

Wrought Steel

Without Screws

BB852 with tool-proof pin without holes
BB852¼ with non-tool-proof pin, without holes
BB852½ with tool-proof pin and leaves machined steel carbonized, with holes

For hinged cell-front doors and grated steel doors of penitentiaries, jails, reformatories, etc. Also recommended for extremely heavy doors and gates of all descriptions.

Made regularly in size 5″ x 6″ x ⅜″, of wrought steel, toughened and hardened by cold rolling. They are made with three knuckles containing two concealed ball bearings. Each bearing has hardened steel races containing sixteen 3/16″ hardened and ground steel balls and are assembled within a jacket. Joints are welded and machined. The hinges weigh 10 pounds per pair and are capable of carrying doors weighing up to 3,000 pounds. Ball bearings insure smooth operation and prevent wear on the joints.

Can be assembled at the factory to take care of any condition. When required with holes they can be furnished with rivets, patch bolts or screws. For prison work, ½″ patch bolts or rivets are recommended.

BB852-BB852½. The tool-proof pin is composed of two sections of ¾″ hardened steel rod and has 1¼″ countersunk heads. A ⅜″ hole is bored out of one end, slightly counterbored. A steel ball is dropped into this pocket. The other end of the pin is turned down to fit into the ⅜″ hole and the end is bored out ⅛″. The two sections are then forced together under pressure of more than one ton, with the result that the steel ball forces the side of the non-hardened end of the pin into the counterbored part of the hardened section, thereby making the two pieces positively non-detachable. The non-hardened part of the pin is, of course, entirely covered, so that virtually the whole pin is hardened its entire length.

When assembled the pins are tool-proof all over and are non-removable from the hinge. They will withstand hammering, sawing, cutting, chiseling, drilling, or bending in any direction.

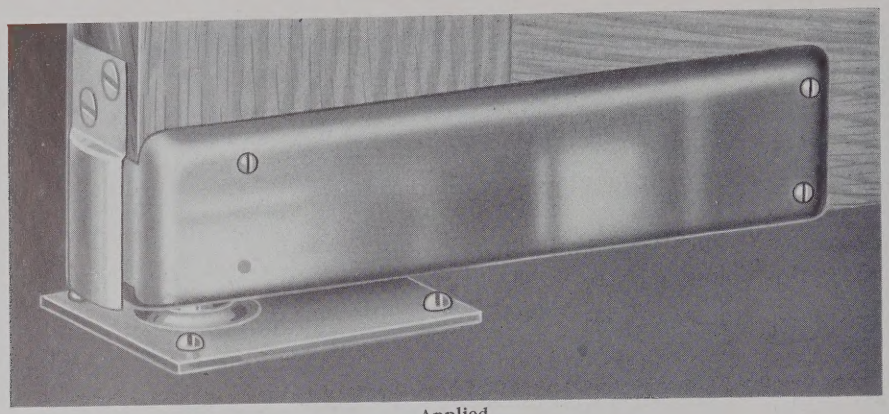
One end of the pin is provided with a small hole for forced lubricating.

BB852¼. The pin is constructed of one piece of steel welded at both ends, making it impossible to drive the pin out. The ends fit flush with the barrel. A small oil hole in the side of the barrel is provided for forced lubricating.

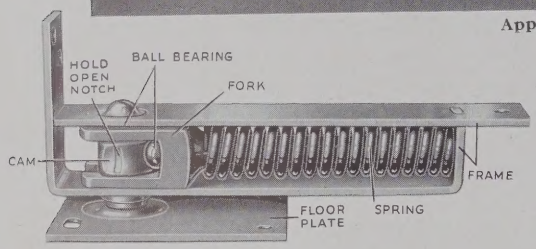
Furnished regularly with a priming coat for painting; symbol "P."

Specify Class Number, also send sketch showing how hinges are to be applied

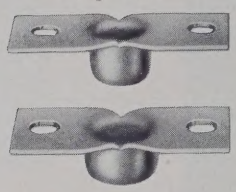
Double Acting Ball Bearing Floor Hinge



Applied



Interior construction



Top-Pivot

Top-Pivot Socket

Wrought Steel

Planished and Plated

155 For Wood Floors

For double acting doors of residences. It will hold the door open at an angle of 90°.

Adapted for doors $1\frac{1}{8}''$ to $1\frac{3}{4}''$ in thickness.

Equipped with hardened steel bearings which not only carry the weight of the door, but also take the thrust of the spring.

The cam is welded to the floor plate.

Side plates are reversible.

To apply the hinge very little wood has to be cut out since it only requires a mortise $6\frac{7}{8}''$ long and $1\frac{1}{8}''$ deep.

Construction

Frame—Heavy cold rolled steel
Cam —Drop-forged, accurately machined and hardened
Fork —Malleable iron, bearing surfaces hardened
Bearings—Hardened steel balls
Spring —Oil tempered steel wire

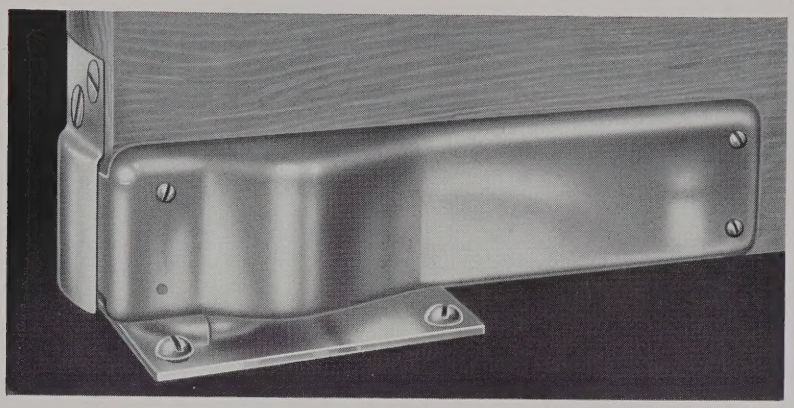
Side Plates (Inches)	Floor Plate (Inches)	Sets in a Case	Average Net Weight Per 100 Sets (Lbs.)	Average Case Weight (Lbs.)
$7^{11}/_{16}$ x $1^{13}/_{16}$	$3\frac{3}{8}$ x $2\frac{3}{4}$	25	250	67

One set in a box with wood screws.

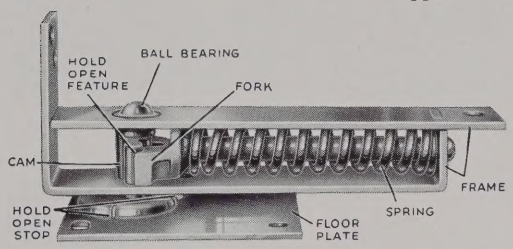
Finishes described on page 25.

Specify Class Number and Finish

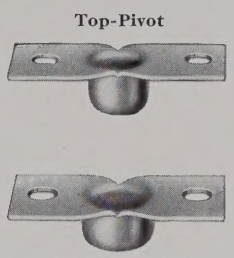
Double Acting Ball Bearing Floor Hinge



Applied



Interior Construction



Top-Pivot Socket

Wrought Steel

Planished and Plated

055 For Wood Floors

For double acting doors of residences. It will hold the door open at an angle of 90°.

Adapted to doors 1⅛″ to 1¾″ in thickness.

Equipped with a hardened steel bearing which carries the weight of the door.

The cam is welded to the floor plate.

Side plates are reversible.

To apply the hinge very little wood has to be cut out as it only requires a mortise 6⅝″ long and 1⅛″ deep.

Construction

Frame—Heavy cold rolled steel
Cam —Drop-forged and accurately machined
Fork —Malleable iron
Bearing—Hardened steel ball
Spring —Oil tempered steel wire

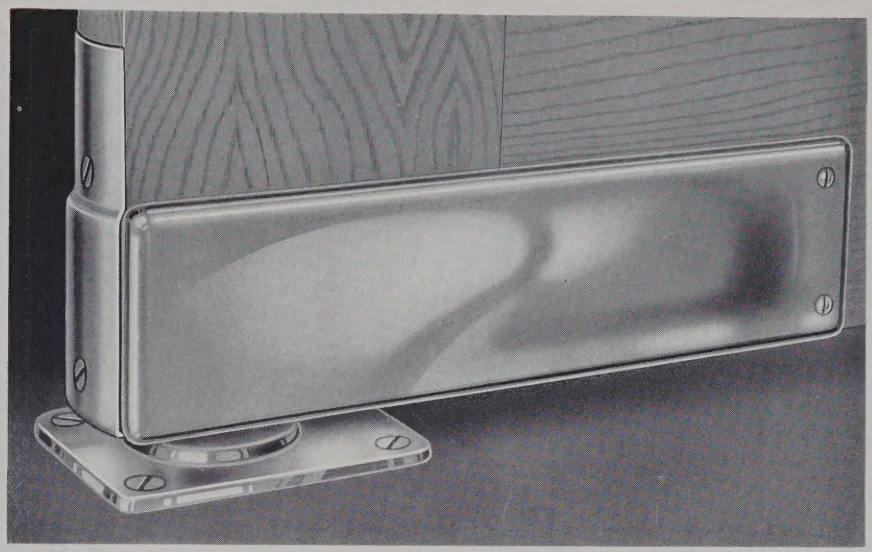
Side Plates (Inches)	Floor Plate (Inches)	Sets in a Case	Average Net Weight Per 100 Sets (Lbs.)	Average Case Weight (Lbs.)
7¼ x 1¾	3⅜ x 2¾	25	150	40

One set in a box with wood screws.

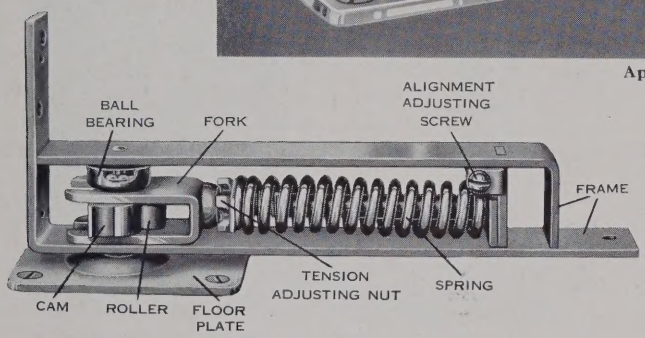
Finishes described on page 25.

Specify Class Number and Finish

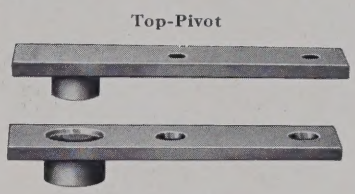
Double Acting Ball Bearing Floor Hinges



Applied

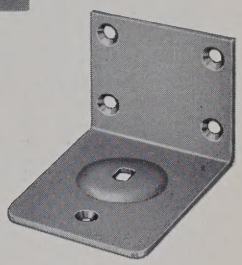


Interior construction



Top-Pivot

Top-Pivot Socket



Jamb Angle Plate for BB156½-BB157½

Wrought Brass Plates

Finely Finished

BB156 For Wood Floors

BB156½ For Tile or Concrete Floors

Wrought Steel Plates

Polished and Plated

BB157 For Wood Floors

BB157½ For Tile or Concrete Floors

For double acting doors of residences. It will hold the door open at an angle of 90°.

Adapted for doors 1⅜″ to 1¾″ in thickness.

Equipped with a ball bearing which not only carries the weight of the door but also takes the thrust of the spring. The ball bearing is located at the top of the hinge away from dust and moisture.

The hardened tool steel roller, working in conjunction with the cam, insures easy and noiseless operation.

The alignment of the door can be adjusted with a screw-driver after the door is in place. Tension of the spring can be adjusted to suit requirements.

BB156 floor plate is made of steel, covered with a sheet of brass.

Side plates are reversible.

Construction

Frame—Heavy cold rolled steel
Cam —Drop-forged, accurately machined and hardened
Fork —Cold rolled steel, case-hardened
Roller —Hardened tool steel
Spring—Oil tempered steel wire

Side Plates (Inches)	Floor Plate (Inches)	Angle Plate (Inches)	Average Net Weight Per 100 Sets (Lbs.)		Sets in a Case	Average Case Weight (Lbs.)	
			BB156 BB157	BB156½ BB157½		BB156 BB157	BB156½ BB157½
9¾ x 2⁹⁄₁₆	3 x 3¾	3 x 3¾ x 2⅝	348	425	6	22	27

One set in a box with wood screws.

Finishes described on page 25.

Specify Class Number and Finish

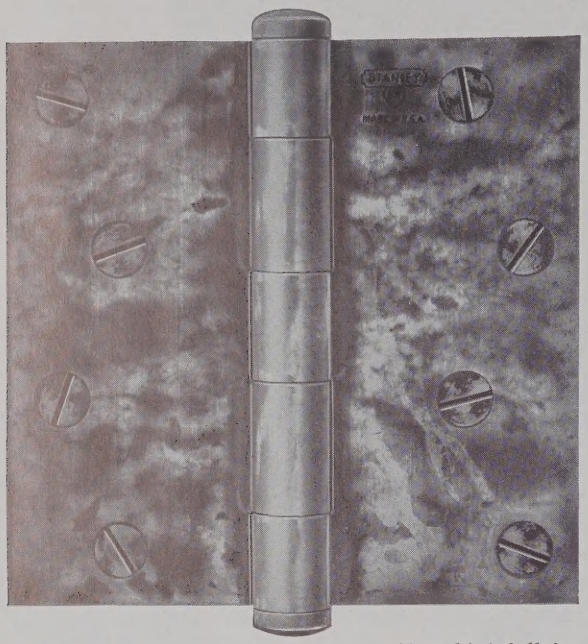
Wrought Iron Finished Butt Hinges

Five Knuckles

Button Tips

For Doors

Non-Rising Loose Pin



4½" x 4½"

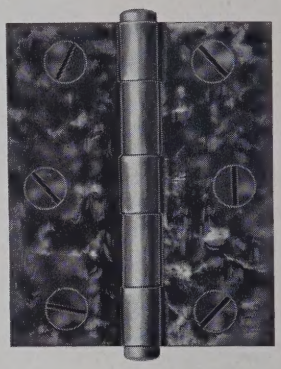
Two-thirds full size

Finish WR

Steeple Tips Furnished on order

For Cabinets

Loose Pin



2½" x 2" Two-thirds full size

Finish WR

Wrought Steel

246 Plain Bearing
BB246 Ball Bearing

Wrought Steel

276 Plain Bearing

For wood doors and cabinets.

Made of wrought steel, toughened and hardened by cold rolling. A special treatment roughens the surface. The finish is applied over a rust-resisting base and is suitable with practically all types of wrought iron hardware.

Furnished with button tips but can be obtained, on order, with brass steeple tips (BST) or steel steeple tips (SST); suffix symbol to number.

BB246. Equipped with two Stanley Non-Detachable Ball Bearings.

Size Open (Inches) 246, BB246	Size Open (Inches) 276	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	Average Net Weight Per Dozen Pairs (Lbs.)
.....	2½ x 2	.065	6– ¾ x 6	...	3½
.....	2½ x 2½	.065	6– ¾ x 6	...	4
3 x 3	.....	.092	6– ¾ x 8	82	...
3½ x 3½	.....	.123	6–1 x 9	136	...
4 x 4	.....	.130	8–1 x 10	180	...
4½ x 4½	.....	.134	8–1¼ x 10	226	...
5 x 5	.....	.146	10–1¼ x 12	307	...

One pair in a box; 276—one-half dozen pairs; with wood screws.

Furnished in Wrought Iron finishes described on page 25

Specify Class Number, Finish and Size

Use Three Butt Hinges to a Door

Wrought Iron Finished Hardware

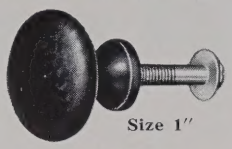
Cabinet Hinge

Fast Pin

277

Knob Pull

For Wood up to 1⅛″ in Thickness



Size 1″

4476

One dozen in a box with screws.
Weight, 1⅛ lbs.

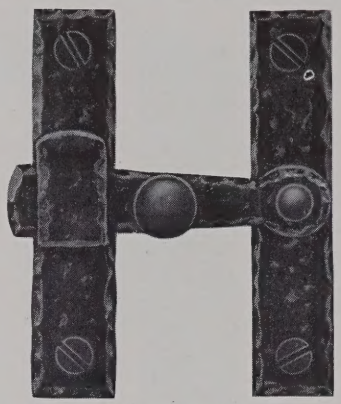
* Furnished on order with plain surface.

Wrought Steel

All Finish WDB

Two-thirds full size

Cabinet Latches



1124¼ with Brass Knob
1124½ with Steel Knob

* Furnished on order with plain surface.

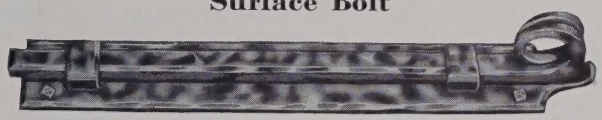
Length of Joint (Inches)	Width Open (Inches)	Gauge of Metal	Size of Pyramid Head Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
1⅜	1⅞	.062	⅝ x 5	2½

One-half dozen pairs in a box with wood screws.

Plates (Inches)	Length of Bar (Inches)	Gauge of Metal (Plate)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
3 x ⅝	2¼	.062	¾ x 7	1¾

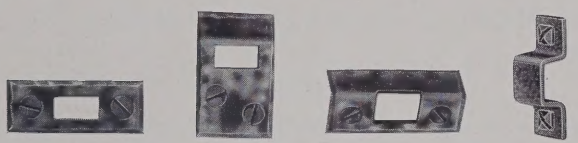
One dozen in a box with wood screws.

Surface Bolt



4″ Finish WR Two-thirds full size

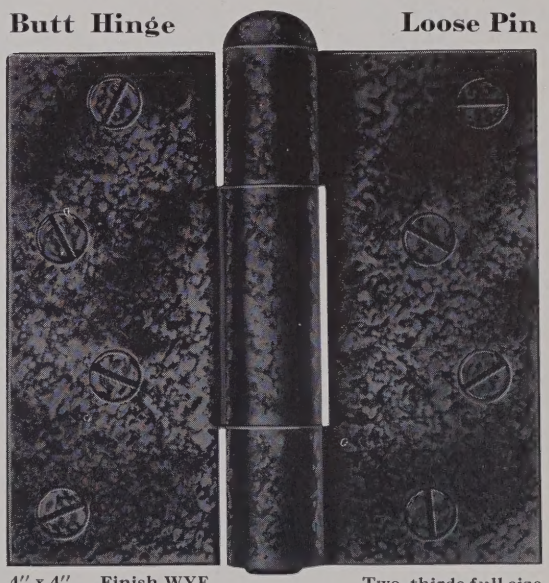
Strikes



No. 1 Flat — No. 2 Universal — No. 3 Angle — No. 4 Surface

For French doors, casement windows, cabinets and bookcases. A concealed spring holds bolt under tension, making it possible to use the bolt vertically or horizontally.

Butt Hinge — Loose Pin



4″ x 4″ Finish WYE Two-thirds full size

For use with hinge straps on exterior doors of residences.

1190 Wrought Steel

Size, Length (Inches)	Width of Plate (Inches)	Gauge of Metal (Plate)	Size of Pyramid Head Wood Screws	Average Net Weight Per Dozen (Lbs.)
3	1	.109	¾ x 5	3
4	1	.109	¾ x 5	3⅝
6	1	.109	¾ x 5	4⅞

One dozen in a box with screws and strikes 1, 2 and 3. No. 4 on order.

248 Wrought Steel

Size Open (Inches)	Length of Center Joint (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)
3½ x 3½	1 ⅝	.123	6–1 x 9	155
4 x 4	1 13/16	.130	8–1 x 10	208
4 x 5	1 13/16	.130	8–1 x 10	234

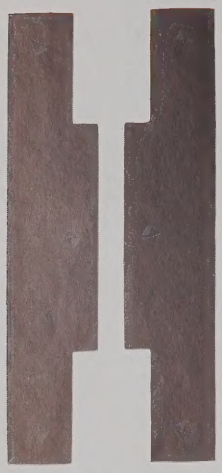
One pair in a box with wood screws.

Furnished in Wrought Iron finishes described on page 25

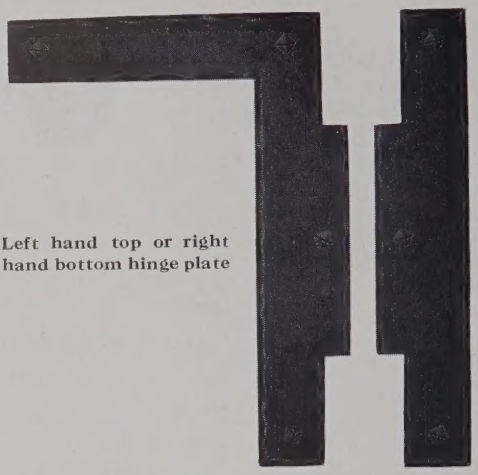
Specify Class Number, Finish and (Size on 248 and 1190)

* With plain surface specify finish symbol J1 or KJ1.

H and H-L Hinge Plates



HP857¼



7″ One-third full size

HP858¼

Wrought Steel

HP857 Plain
HP857¼ Hand-Hammered Edges

Wrought Steel

HP858 Plain
HP858¼ Hand-Hammered Edges

For doors and cabinets in residences.

Made of wrought steel, toughened and hardened by cold rolling.

Furnished with pyramid head wood screws to give the appearance of hand-hammered nails.

Butt hinges with flat button tips are recommended for use with H and H-L plates.

When ordered in pairs H-L plates are reversible. When ordered singly specify hand desired and whether top or bottom hinge plate.

HP857–HP857¼—1 pair consists of 4 only H plates.
HP858–HP858¼—1 pair consists of 2 only H plates and 2 only L plates (1 top and 1 bottom).

Size, Length (Inches)	Width at Ends (Inches)	Width at Joints (Inches)	Length of L Part (Inches)	Gauge of Metal	Size of Pyramid Head Wood Screws	For Use with Butt Hinges (Size—Inches)	Average Net Weight Per 100 Pairs (Lbs.)	
							HP857 HP857¼	HP858 HP858¼
4½	⅝	⅞	3	.083	⅝ x 5	**2—2½**	18	21
7	1	1⅜	4¾	.109	1 x 8	**3½**	52	62
9	1	1½	7	.120	1¼ x 9	**3½—4**	76	95

4½″ six pairs in a box; 7″ and 9″ three pairs; with pyramid head wood screws.

Furnished in Dead Black (J1) or (KJ1) finish

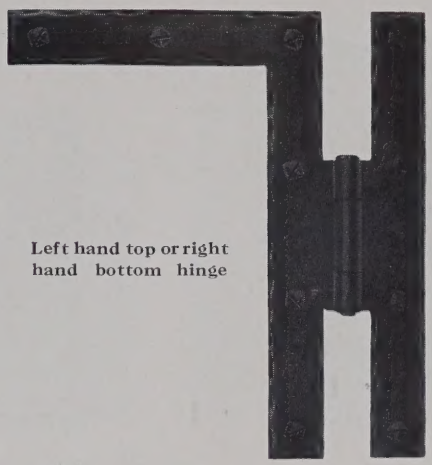
Specify Class Number, Size and Finish

H and H-L Hinges

Loose Pin

Nail Head Tip

857¼ 7″ x 2 7/16″



Left hand top or right hand bottom hinge

One-third full size

858¼ 7″ x 6 7/16″

Wrought Steel

857 Plain
857¼ Hand-Hammered Edges

Wrought Steel

858 Plain
858¼ Hand-Hammered Edges

For doors and cabinets in residences. Doors must fit flush with the casing.

Made of wrought steel, toughened and hardened by cold rolling.

The slender leaves, gauge of metal and size of knuckle closely follow the proportions of the original patterns.

Furnished with pyramid head wood screws to give the appearance of hand-hammered nails.

When ordered in pairs H-L hinges are reversible. When ordered singly specify hand desired and whether top or bottom hinge.

Recommended use of H and H-L Hinges for doors and cabinets

Size of Door			Hinges	Size
Height	Width	Thickness		
1′ 6″	1′ 6″	3/4″	1 pair H-L Hinges	2″
2′ 0″	1′ 8″	7/8″	1 pair H-L Hinges	3″
3′ 0″	1′ 8″	1″	1 pair H-L Hinges, ½ pair H Hinges	4″
6′ 8″	2′ 6″	1 3/8″	1 pair H-L Hinges, ½ pair H Hinges	7″
7′ 0″	2′ 8″	1 3/4″	1 pair H-L Hinges, ½ pair H Hinges	9″

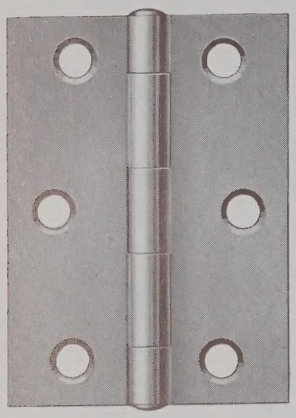
Size Open (Inches)		Width of Leaves (Inches)	Width Between Leaves (Inches)	Gauge of Metal	Quantity and Size of Pyramid Head Wood Screws		Average Net Weight Per 100 Pairs (Lbs.)	
857 857¼	858 858¼				857 857¼	858 858¼	857 857¼	858 858¼
2 x 1 13/32	.....	15/32	15/32	.050	4– 5/8 x 5	.....	12½	...
3 x 1 3/4	3 x 3 3/16	½	5/8	.065	6– 5/8 x 5	7– 5/8 x 5	23	25
4 x 1 7/8	4 x 3 7/8	5/8	5/8	.065	6– 5/8 x 5	7– 5/8 x 5	31	36
7 x 2 7/16	7 x 6 7/16	7/8	3/4	.095	8–1 x 8	10–1 x 8	108	112
9 x 2 15/16	9 x 9	1	15/16	.109	8–1¼ x 9	10–1¼ x 9	155	207

Six pairs in a box with pyramid head wood screws. Furnished in Dead Black (J1) or (KJ1) finish.

Specify Class Number, Size and Finish

Narrow Butt Hinges

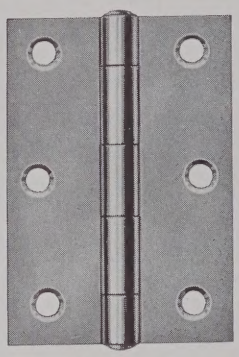
Narrow
Fast Pin



3″ Two-thirds full size

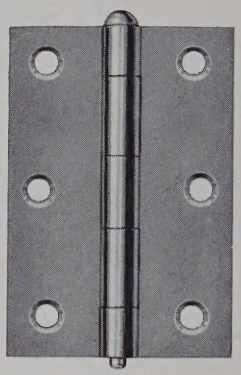
Light Narrow

Fast Pin



2½″ Two-thirds full size

Loose Pin



2½″ Two-thirds full size

Wrought Steel

800 Plain Steel without screws

1315 Galvanized with Brass Pin with wood screws

Wrought Steel

838 Plain Steel without screws

284 Japanned and Planished and Plated with wood screws

1317 Galvanized with Brass Pin with wood screws

Wrought Steel

840 Plain Steel without screws

286 Japanned and Planished and Plated with wood screws

284, 286, 1317, made only in sizes 1″, 1½″, 2″, 2½″ and 3″.

All made with five knuckles, except 800, 1315, 2½″ and smaller; 838, 840, etc., 2″ and smaller which have three knuckles.

800

Size, Length of Joint (Inches)	Width Open (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
1	1 3/16	.063	4– 5/8 x 5	5/8
1¼	1 3/8	.065	4– 3/4 x 6	1
1½	1 1/2	.068	4– 3/4 x 6	1¼
1¾	1 9/16	.073	4– 3/4 x 6	1¾
2	1 11/16	.074	4– 3/4 x 7	2⅛
2½	1 7/8	.075	6– 3/4 x 7	3⅛
3	2 3/16	.079	6– 3/4 x 8	4⅜
3½	2 1/2	.087	6–1 x 9	7⅛
1315				
1½	1 1/2	.068	4– 3/4 x 6	1⅝
2	1 11/16	.074	4– 3/4 x 7	2¾
2½	1 7/8	.075	6– 3/4 x 7	4
3	2 3/16	.079	6– 3/4 x 8	5⅜

838, 840, Etc.

Size, Length of Joint (Inches)	Width Open (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)		Dozen Pairs in a Case	Average Case Weight (Lbs.)
				838 840	284-286 1317	838 840	
* 3/4	11/16	.039	4– 1/2 x 2	3/16	...	...	...
1	1	.050	4– 1/2 x 3	1/2	1/2	100	47
1¼	1 1/16	.050	4– 5/8 x 4	5/8	...	100	64
1½	1 3/8	.050	4– 5/8 x 5	7/8	1	100	93
1¾	1 7/16	.055	4– 5/8 x 5	1¼	...	...	...
2	1 9/16	.065	4– 3/4 x 6	1¾	2	100	190
2½	1 11/16	.065	6– 3/4 x 6	2⅜	2⅝	50	124
3	2	.074	6– 3/4 x 7	3⅞	4¼	50	207
3½	2 1/4	.077	6– 3/4 x 8	5¾	...	...	...
4	2 3/8	.079	8–1 x 9	8½	...	...	...
4½	3	.080	8–1¼ x 10	11	...	...	...
5	3 3/16	.087	8–1¼ x 10	14	...	...	...
6	3 15/16	.098	8–1¼ x 11	22½	...	...	...

Plain Steel 3″ and smaller one dozen pairs in a box; 3½″ to 4½″ inclusive one-half dozen pairs; larger sizes one-quarter dozen pairs; without screws. Japanned, Galvanized or Plated finishes one dozen pairs in a box with wood screws.

* Not swaged.

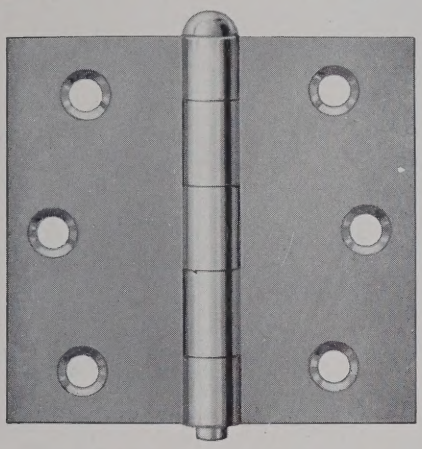
Finishes described on page 25

Specify Class Number (Finish on 284, 286) and Size

Broad Butt Hinges

Five Knuckles

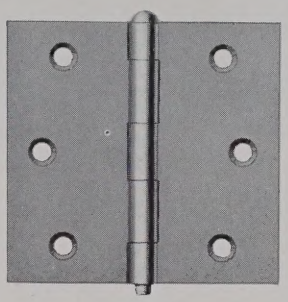
Loose Pin Oval Tip



3″ x 3″ Two-thirds full size

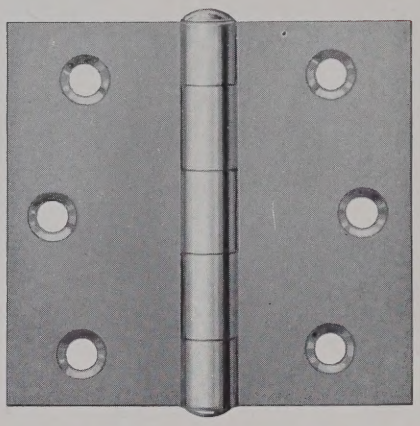
Light

Loose Pin Oval Tip



2½″ x 2″ Two-thirds full size

Fast Pin



3″ x 3″ Two-thirds full size

Wrought Steel

Without Screws

804 Plain Steel

With Wood Screws

Sc804 Plain Steel
804K Cadmium Plated
804KBP Cadmium Plated with Brass Pin
1334 Galvanized with Brass Pin

Wrought Steel

Without Screws

834 Plain Steel

Wrought Steel

Without Screws

808 Plain Steel

With Wood Screws

808K Cadmium Plated
808KBP Cadmium Plated with Brass Pin
1319 Galvanized with Brass Pin

Size Open (Inches)	Gauge of Metal		Quantity and Size of Wood Screws		Average Net Weight Per 100 Pairs (Lbs.)	Average Net Weight Per Dozen Pairs (Lbs.) Without Screws		Dozen Pairs in a Case	Pairs in a Case	Average Case Weight (Lbs.)	
	All Except 834	834 Only	All Except 834	834 Only	With Screws	All Except 834	834 Only	804-808	Sc804-1334 1319	804 808	Sc804-1334 1319
2 x 2	.082	.065	4– ¾ x 7	4–¾ x 6	30	3	2¼	10	..	31	..
2½ x 2	.089	.065	6– ¾ x 8	6–¾ x 6	39	4¼	2⅝	..	..	..	..
2½ x 2½	.089	.065	6– ¾ x 8	6–¾ x 6	48	5	3¼	10	..	51	..
3 x 2½	.092	.074	6– ¾ x 8	6–¾ x 7	64	6½	4⅞	..	..	..	..
3 x 3	.092	.074	6– ⅞ x 8	6–¾ x 7	68	7	5⅝	5	50	37	35
3½ x 3	.101	...	6–1 x 9	.....	93	10	...	..	..	..	..
3½ x 3½	.101	...	6–1 x 9	.....	101	11	...	5	50	58	52
4 x 4	.107	...	8–1 x 10	.....	136	15	...	..	25	..	35
4½ x 4½	.123	...	8–1¼ x 10	.....	193	21	...	..	25	..	49
5 x 5	.140	...	10–1¼ x 12	.....	278	30	...	..	..	..	..
6 x 6	.160	...	10–1½ x 14	.....	440	48	..	..	..	..	..

804 and 808—3″ x 3″ and smaller one dozen pairs in a box; 3½″ x 3″ to 4″ x 4″ inclusive one-half dozen pairs; 4½″ x 4½″ and 5″ x 5″ one-quarter dozen pairs; 6″ x 6″ one-twelfth dozen pairs; without screws.

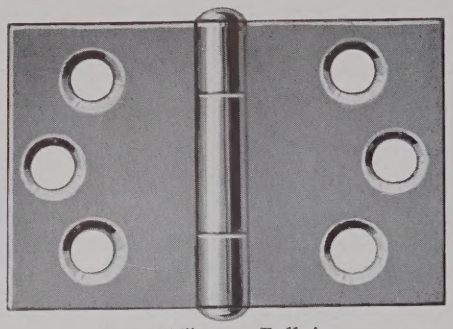
Sc804, 1319 and 1334—2½″ x 2½″ and smaller three pairs in a box; larger sizes one pair; with wood screws.

804K, 804KBP, 808K and 808KBP—3″ x 3″ and smaller one dozen pairs in a box; 3½″ x 3″ to 4″ x 4″ inclusive one-half dozen pairs; 4½″ x 4½″ and 5″ x 5″ one-quarter dozen pairs; 6″ x 6″ one-twelfth dozen pairs; with wood screws.

834—one dozen pairs in a box without screws.

Specify Class Number and Size

Light Fast Pin Butt Hinges



1½" Full size

Wrought Steel

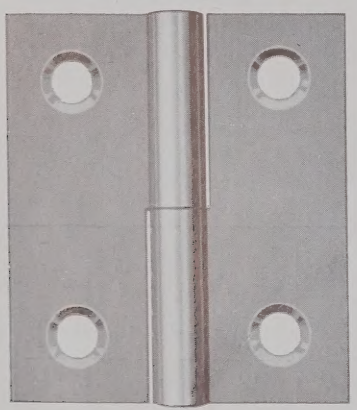
842 Plain Steel without screws

Size, Length of Joint (Inches)	Width Open (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
1	1 5/8	.050	5/8 x 4	5/8
1 1/8	1 3/4	.055	5/8 x 5	7/8
1 1/4	1 7/8	.055	5/8 x 5	1
1 1/2	2 1/8	.055	5/8 x 5	1 3/8

One dozen pairs in a box without screws.

Loose Joint Butt Hinges

Narrow



2" (RH) Full size

Wrought Steel

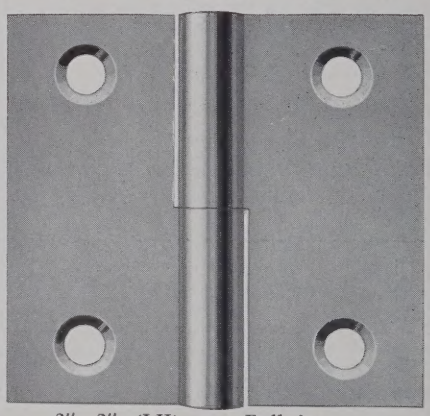
802 Plain Steel without screws

Size, Length of Joint (Inches)	Width Open (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
2	1 11/16	.074	4– 3/4 x 7	2 1/8
2 1/2	1 7/8	.075	6– 3/4 x 7	3 1/8
3	2 1/8	.079	6– 3/4 x 8	4 1/2
3 1/2	2 1/2	.087	6–1 x 9	7 1/8
4	2 7/8	.089	8–1 x 9	9 1/2

3" and smaller one dozen pairs in a box; larger sizes one-half dozen pairs; without screws.

Specify Hand

Broad



2" x 2" (LH) Full size

Wrought Steel

806 Plain Steel without screws
Sc806 Plain Steel with wood screws
806J Japanned with wood screws
1321 Galvanized with Brass Pin with wood screws

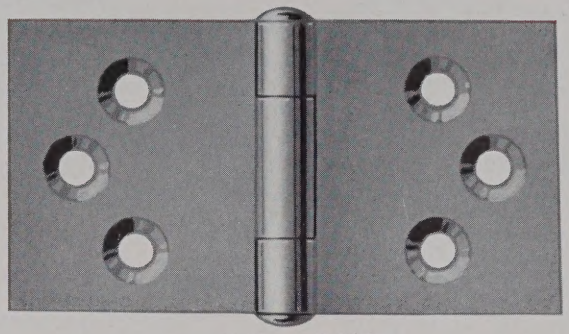
Size Open (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	
			806	806J-Sc806 1321
2 x 2	.082	4– 3/4 x 7	3	3 1/2
2 1/2 x 2 1/2	.089	6– 3/4 x 8	4 7/8	5 7/8
3 x 3	.092	6– 3/4 x 8	7 1/4	8 3/8
3 1/2 x 3 1/2	.101	6–1 x 9	10 7/8	12 3/8
4 x 4	.107	8–1 x 10	14 1/2	16 1/2

Sc806—one pair in a box with wood screws. 806—3" x 3" one dozen pairs in a box; larger sizes one-half dozen pairs; without screws. 806J, 1321—one-half dozen pairs in a box; with wood screws.

Specify Class Number, Size and (*Hand on* **802, 806,** *etc., see page* **17**)

Back Flaps

Fast Pin



1½" Full size

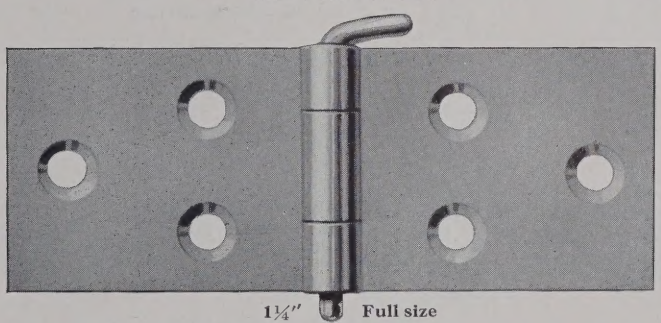
Wrought Steel

816 Plain Steel (swaged) without screws
816½ Plain Steel (not swaged) without screws
1313 Galvanized with Brass Pin (not swaged) with wood screws

Size, Length of Joint (Inches)	Width Open (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	
				816-816½	1313
1	2	.075	¾ x 6	1¼	1⅝
1¼	2 5/16	.075	¾ x 6	1¾	2⅛
1½	2 ¾	.075	¾ x 8	2¼	3
1¾	3 3/16	.077	¾ x 8	3¼	4
2	3 11/16	.077	¾ x 8	4¼	5⅜

One dozen pairs in a box, 816–816½, without screws; 1313 with wood screws.

Bent Loose Pin



1¼" Full size

Wrought Steel

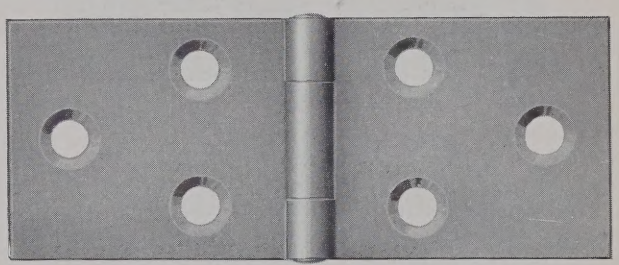
813 Plain Steel (swaged) without screws

Suitable for theatrical scenery for attaching two sections together.

Size, Length of Joint (Inches)	Width Open (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
1¼	3¼	.075	¾ x 7	2¼
1½	3 7/16	.075	¾ x 8	2¾
1¾	4	.077	¾ x 8	3⅞
2	4⅜	.077	¾ x 8	4⅞

One dozen pairs in a box without screws.

Fast Pin



1¼" Full size

Wrought Steel

814 Plain Steel (swaged) without screws
814½ Plain Steel (not swaged) without screws

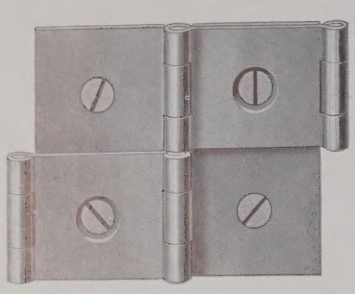
Size, Length of Joint (Inches)	Width Open (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
¾	2¾	.075	4–¾ x 6	1¼
1	2⅞	.075	6–¾ x 6	1½
1⅛	3	.075	6–¾ x 6	1⅞
1¼	3¼	.075	6–¾ x 7	2¼
1½	3 7/16	.075	6–¾ x 8	2¾
1¾	4	.077	6–¾ x 8	3⅞
2	4⅜	.077	6–¾ x 8	4⅞

One dozen pairs in a box without screws.

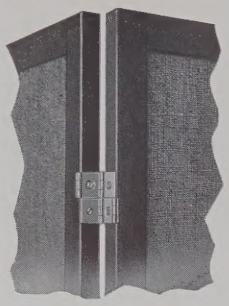
Specify Class Number and Size

Double Acting Hinges

For Folding Screens



1¼" Two-thirds full size



Applied

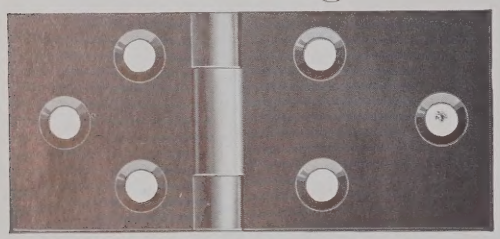
Wrought Steel

875 Planished and Plated

Size, For Wood Thickness (Inches)	Length of Joint (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
5/8	1 5/8	.045	5/8 x 6	1½
¾	1¾	.045	5/8 x 6	2
⅞	1¾	.055	5/8 x 5	2¼
1	1⅞	.045	5/8 x 6	2⅜
1⅛	1¾	.058	5/8 x 5	2¾
1¼	2	.058	5/8 x 6	3½

One dozen pairs in a box with wood screws.

Table Hinges



1⅛" Flush Riveted Full size

Applied

Wrought Steel

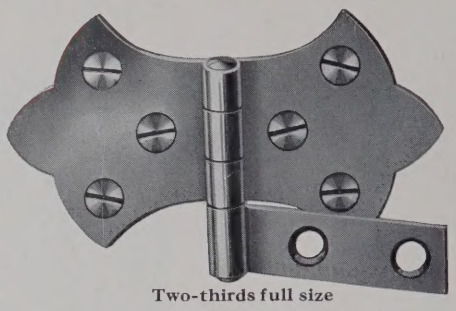
810 Plain Steel without screws

Hinges are swaged and the countersinking is on the outside of each leaf.

Size, Length of Joint (Inches)	Width Each Leaf (Inches) Long	Width Each Leaf (Inches) Short	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
1	1½	1⅛	.075	¾ x 6	1½
1⅛	1 9/16	1 3/16	.075	¾ x 7	1⅝
1¼	1⅝	1¼	.075	¾ x 7	2
1½	1¾	1⅜	.075	¾ x 8	2½
1¾	1¾	1⅜	.075	1 x 9	3
2	2 3/16	1⅝	.075	1 x 9	4¼

One dozen pairs in a box without screws.

Toilet Seat Hinge



Two-thirds full size

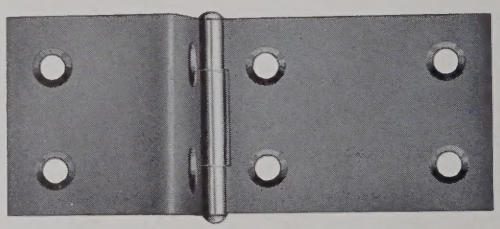
Wrought Steel

1492 Planished and Plated

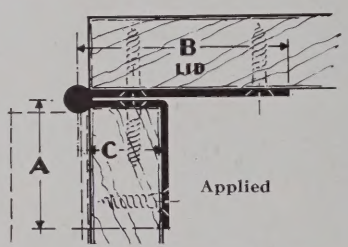
Length of Joint (Inches)	Width Open (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
1½	3 1/16	.042	5/8 x 5	2⅛

One dozen pairs in a box with wood screws.

Chest Hinges



1½" x ¾" Offset Two-thirds full size



Applied

Wrought Steel

820 Plain Steel without screws

Size (Inches) Length of Joint	Offset (C)	Width (Inches) (A)	Width (Inches) (B)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
1½	x ½	1½	2	.075	7–½ x 7	3½
1½	x 5/8	1⅜	2	.075	7–5/8 x 7	3½
1½	x ¾	1¼	2	.075	8–5/8 x 7	3½
1½	x ⅞	1⅛	2	.075	8–¾ x 7	3½
2	x ½	2	2½	.077	7–½ x 8	6¼
2	x 5/8	1⅞	2½	.077	7–5/8 x 8	6¼
2	x ¾	1¾	2½	.077	8–5/8 x 8	6¼
2	x ⅞	1⅝	2½	.077	8–¾ x 8	6¼

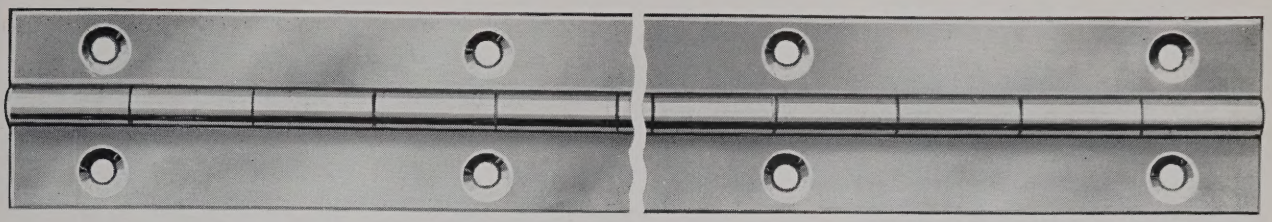
One dozen pairs in a box without screws.

Finishes described on page 25

Specify Class Number (Finish on 875, 1492) and Size

Continuous Hinges

With Brass Pin



1 1/16" Full size

Without Screws

Wrought Steel	Wrought Brass
311 Regular Weight	311¼ Regular Weight
*0311 Light Weight	*0311¼ Light Weight

White Metal

(Zinc composition)

311½ Regular Weight

Screw holes spaced 2″ apart, other spacings on order.
Regularly furnished in lengths up to 72″, longer lengths on order.

Size, Width Open (Inches)	Length of Knuckles (Inches)	Gauge of Metal		Size of Wood Screws	Average Net Weight Per 100 Feet (Lbs.)	
		311-311¼ 311½	0311-0311¼		311-311¼ 311½	0311-0311¼
1 1/16	5/8	.045	.035	½ x 4	22	21
1 ¼	5/8	.045	...	½ x 4	25	..
1 ½	5/8	.045	...	½ x 4	30	..

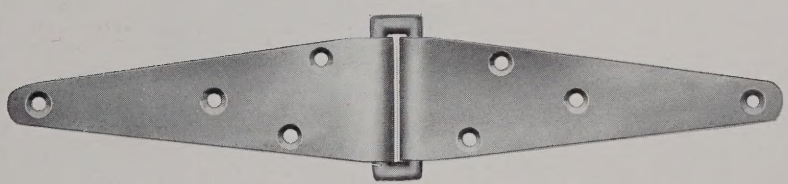
Packed as ordered and without screws unless otherwise specified. Finishes described on page 25.

* Furnished only in size 1 1/16″.

Specify Class Number, Finish, Length and Width

Trap Door Hinge

Solid Link



One-quarter full size

Wrought Steel

923 Plain Steel without screws

Hinges set flush with trap door and floor avoiding any tripping hazard.

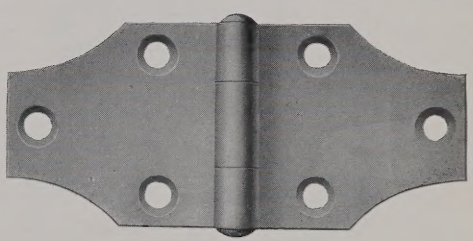
For trap door ring, see page 156.

923

Length of Each Leaf (Inches)	Length of Link (Inches)	Width of Strap at Link (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
8	3 5/8	2 5/8	.137	1¼ x 12	37½

Packed as ordered.

End Gate Hinge



One-half full size

Wrought Steel

938 Plain Steel without screws

938

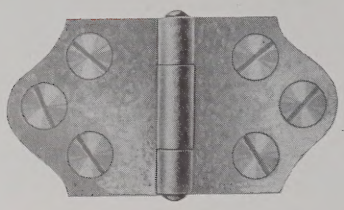
Size Open (Inches)	Length of Joint (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
4¾	2⅛	.083	1 x 8	6¼

One dozen pairs in a box without screws.

Specify Class Number

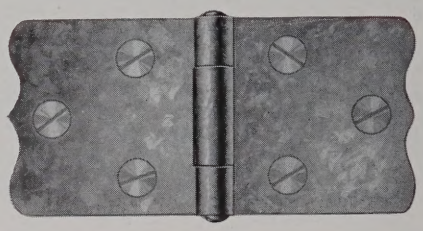
Laundry Tub Cover Hinges

Fast Brass Pin



1¾" One-half full size
Design of 1½"—1¾"

Fast Brass Pin



2" One-half full size

Wrought Steel
With Wood Screws

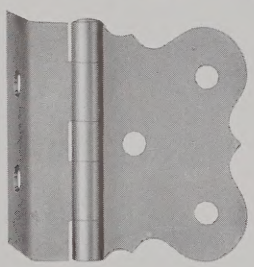
1312 Galvanized with Brass Pin

For wood covers hinged to a wood strip.

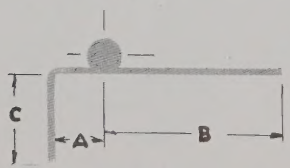
Size, Length of Joint (Inches)	Width Open (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
1½	2¾	.075	¾ x 8	2⅝
1¾	3⅛	.077	¾ x 8	3⅜
2	4⅛	.077	¾ x 8	6

One dozen pairs in a box with wood screws.

Fast Brass Pin



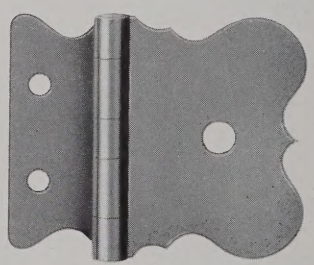
Two-thirds full size



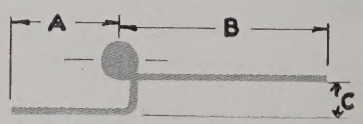
1500 Wrought Steel
1500½ Wrought Brass

Without Bolts or Screws

Fast Brass Pin



Two-thirds full size



1502 Wrought Steel
1502½ Wrought Brass

1500. For covers hinged to a wood strip; 1502 for covers hinged to a soapstone ledge.

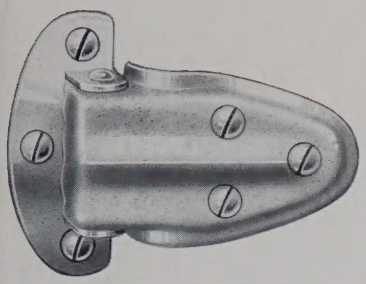
Number	Length of Joint (Inches)	Width Measurements (Inches) A	B	C	Gauge of Metal	Size of RH Bolts	Size of RH Wood Screws	Average Weight Per Dozen Pairs (Lbs.)
1500-1500½	1⅞	7/16	1½	¾	.049	⅜ x 5/32	¾ x 10	1⅜
1502-1502½	1⅞	25/32	1½	7/32	.049	⅜ x 5/32	.....	1⅜

One dozen pairs in a box without bolts or wood screws. Furnished in Bright Nickel finish.

Specify Class Number and (Size on **1312**)

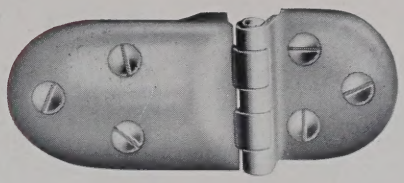
Refrigerator Hinges

For Lipped or Flush Doors



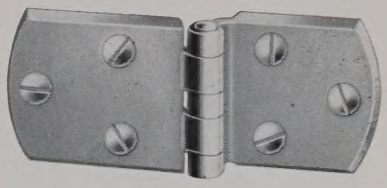
For Lipped Doors
(3/4" Lip)

1440 Wrought Brass



For Lipped Doors
(7/16" Lip)

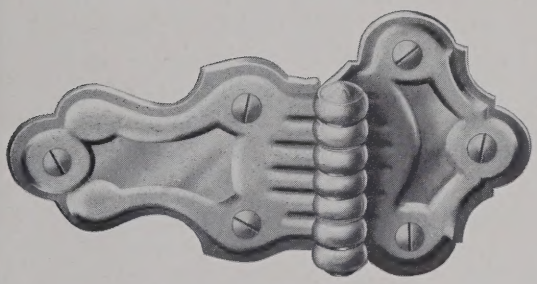
1441 Wrought Brass
1443 Wrought Steel



For Lipped Doors
(7/16" Lip)

1447 Wrought Brass
1445 Wrought Steel

Corrugated



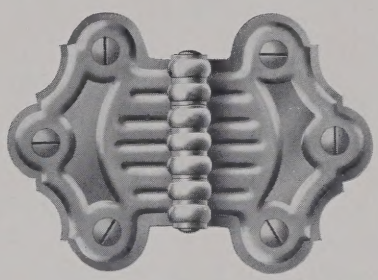
1408-1409

For Lipped Doors
(7/16" Lip)

1408 Wrought Brass
1409 Wrought Steel

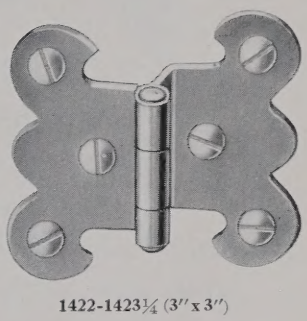
For Flush Doors

1404 Wrought Brass
1405 Wrought Steel



For Flush Doors

1416 Wrought Brass
1417 Wrought Steel



1422-1423¼ (3" x 3")

For Lipped Doors
(7/16" Lip)

1423¼ Wrought Brass
1422 Wrought Steel

For Flush Doors

1421¼ Wrought Brass
1420 Wrought Steel

Illustrations one-half full size

The corrugated hinges are extra strong,—corrugating serves to strengthen the joints and leaves and prevents binding on the pin. Pins are made of steel to give added strength and cadmium plated to resist rust. On the brass hinges, the ends of the joint overlap the pin, thus giving additional protection from moisture.

Number	Size, Open (Inches)	Length of Joint (Inches)	Door Leaf (Inches)	Jamb Leaf (Inches)	Gauge of Metal	Size of OH Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
1404-1405	.....	1 3/4	2 1/16 x 2 7/8	2 3/4 x 2 1/8	.077	3/4 x 8	6 1/2
1408-1409	.....	1 3/4	2 1/16 x 2 5/8	2 3/4 x 1 3/4	.077	3/4 x 8	6 5/8
1416-1417	.....	1 3/4	2 3/4 x 2 1/4	2 3/4 x 2 1/4	.077	3/4 x 8	6 1/4
1420-1421¼	1 3/4 x 1 3/4	7/8	.....	.....	.077	5/8 x 5	1 3/4
1422-1423¼	2 1/2 x 2 1/2	1 5/16	.....	.....	.089	3/4 x 7	4
	3 x 3	1 3/4	.....	.....	.101	3/4 x 8	6 1/2
1440	.....	1 1/2	1 3/4 x 2 3/8	2 3/4 x 7/8	*.072	3/4 x 7	4
1441-1443	.....	1 1/2	1 5/8 x 2 5/8	1 5/8 x 1 1/2	.065	3/4 x 8	4 5/8
1445-1447	.....	1 1/2	1 5/8 x 2 1/4	1 5/8 x 2	.093	1 x 9	6 1/8

* Door Leaf .050

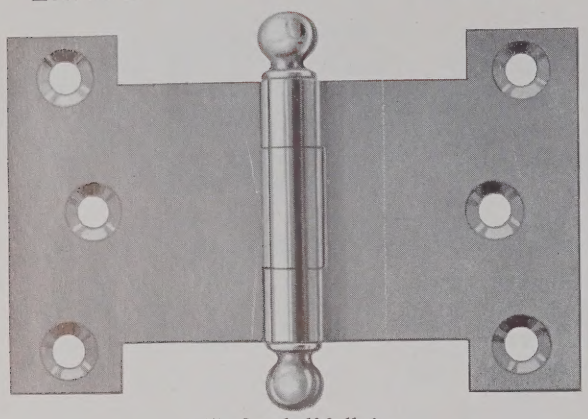
One dozen pairs in a box, except corrugated joint hinges which are one-half dozen pairs; with wood screws.

Finishes described on page 25

Specify Class Number, Finish and (Size on **1420, 1421¼, 1422, 1423¼**)

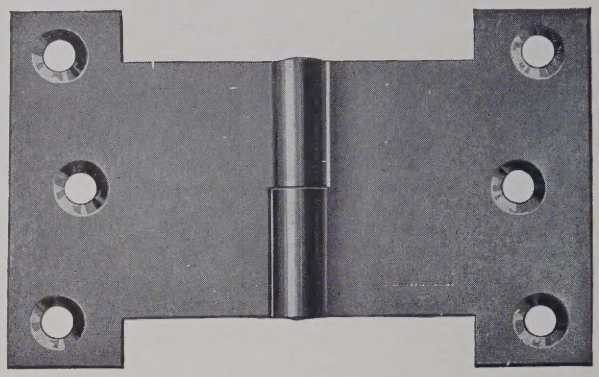
Parliament Butt Hinges

Loose Pin — Ball Tips



6″ One-half full size

Loose Joint — Specify Hand



6″ (RH) One-half full size

Wrought Steel

260 Planished and Plated with wood screws

828 Plain Steel without screws

828K Cadmium Plated with wood screws

Not made in sizes 2½″, 5½″ and 7″

Furnished on order with loose oval head pin without bottom tip. Suffix symbol "OBT."

Wrought Steel

830 Plain Steel without screws

1333 Galvanized with Brass Pin with wood screws

Not made in size 12″

For loose joint butt hinges designed especially for blinds, see butt hinge 831, page 197.

Light Weight

832 Plain Steel without screws

Size, Width Open (Inches) All Except 832	Length of Joint (Inches)	Gauge of Metal	Width Between Flanges (Clearance) (Inches)	Flange (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)			
						828	260	830	1333
2½	1½	.082	1 5/32	2 3/16 x 1 1/16	6– 7/8 x 8	—	—	3 3/8	4¼
3	1½	.087	1 5/8	2 3/16 x 1 1/16	6– 7/8 x 8	4¼	5	3 7/8	4¾
3½	1¾	.089	1 15/16	2 7/16 x 25/32	6– 7/8 x 9	5½	6½	5	6⅛
4	1¾	.095	2 7/16	2 7/16 x 25/32	6–1 x 9	6½	7½	6	7
4½	1¾	.101	2 7/8	2 7/16 x 13/16	6–1 x 9	8	9	7	8½
5	1¾	.105	3 3/8	2 7/16 x 13/16	6–1 x 9	9	10	8½	10
5½	1¾	.110	3 7/8	2 7/16 x 13/16	6–1 x 9	—	—	9 5/8	11
6	2	.115	4 1/32	2 7/8 x 1	6–1¼ x 10	13	15	12	14¼
7	2¼	.123	4 3/4	3 3/8 x 1 1/8	6–1¼ x 10	—	—	17½	19½
8	2½	.148	5 3/4	3 5/8 x 1 1/8	6–1¼ x 12	28	30	21¼	22¼
10	3	.165	7 1/2	4¼ x 1 1/4	8–1¼ x 12	43½	46	32	35
12	3 7/16	.190	9	5 x 1 1/2	8–1½ x 12	65	68	—	—
832									
2½	1	.077	1½	1 11/16 x ½	6–¾ x 6	.....	2	.....	
3	1	.077	1 7/8	1 11/16 x ½	6–¾ x 6	.....	2¼	.....	

260, 828K and 1333—4½″ and smaller one dozen pairs in a box; 5″ to 8″ one-half dozen pairs; 10″ and 12″ one-quarter dozen pairs; with wood screws. 828 and 830—6″ and smaller one-half dozen pairs in a box; larger sizes one-quarter dozen pairs; without screws. 832—one dozen pairs in a box without screws.

Finishes described on page 25

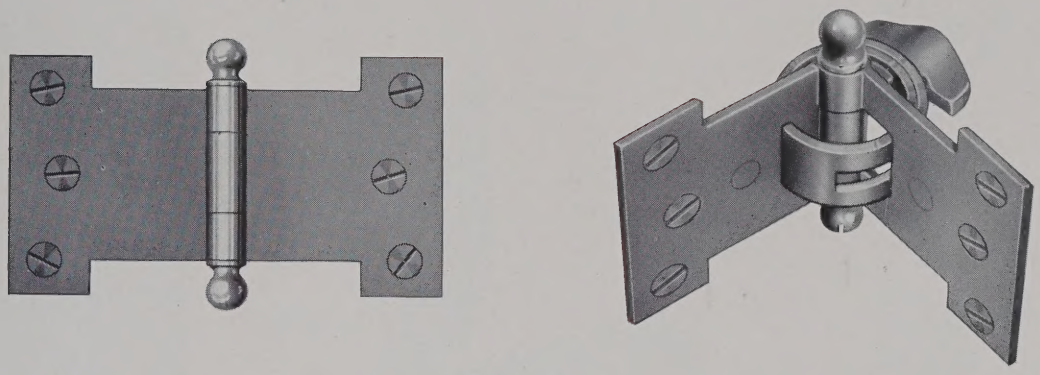
Specify Class Number, Finish, Size and (Hand on **830**, *etc., see page* **17**)

Casement Hinges

For In-Swinging Casements

Loose Pin — Ball Tips

Top Hinge — Bottom Hinge



One-half full size

Wrought Steel

Set 262 Planished and Plated

For light wood casements opening in.

A single set consists of one Parliament Lock Hinge for the bottom and one regular Parliament Hinge for the top; the equipment for one single casement window.

Made of wrought steel, toughened and hardened by cold rolling.

The Parliament Lock Hinge is an adjusting hinge, not a friction hinge. The windows are held in any position by a slight turn of the wing nut. No screw driver, wrench or hammer is necessary to apply or release the tension.

Furnished in size 4½″ only, as any smaller size would not allow sufficient clearance for curtain rods when the window is fully opened. The shade and draperies are applied on the sash which protects them from wind and dirt.

Sets are furnished right and left hand, but it is possible to reverse the hand of the lock hinge by unscrewing the slotted tip, reversing the pin and screwing the tip into the opposite end.

In applying the lock hinge the leaf with the half circle should be attached to the jamb.

Width Open (Inches)	Length of Joint (Inches)	Gauge of Metal	Clearance (Inches)	Flange (Inches)	Size of Wood Screws	Average Net Weight Per Dozen Sets (Lbs.)
4½	1¾	.101	2⅜	2 7/16 x 1 3/16	1 x 9	10

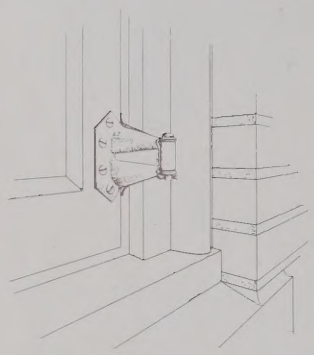
One single set in a box with wood screws.

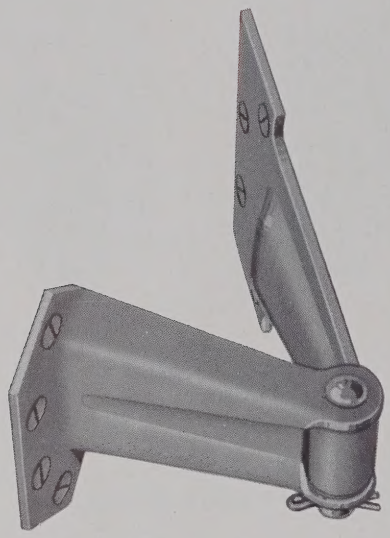
Finishes described on page 25.

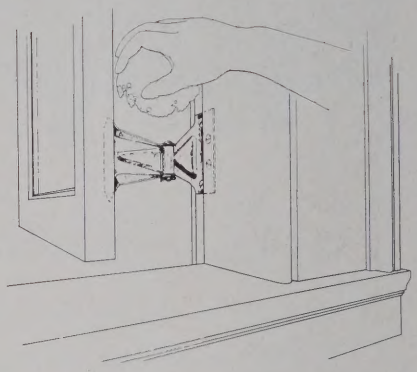
Specify Class Number and Finish

Casement Hinge

For Out-Swinging Casements







One-half full size

Wrought Steel

267 Cadmium Plated with Loose Brass Pin

For wood casements opening out.

Made of wrought steel, toughened and hardened by cold rolling.

Embossing of the leaves adds materially to the strength of the hinge.

The wide throw provides a 4″ space between the window and frame, allowing ample room for cleaning the outside of the window from the inside.

Reversible for right or left hand casements.

Width Open (Inches)	Length of Joint (Inches)	Clearance (Inches)	Jamb Flange (Inches)	Window Flange (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)
7	1 3/8	5 7/16	3 3/8 x 1 7/16	3 5/8 x 1 1/4	.125	1 x 10	140

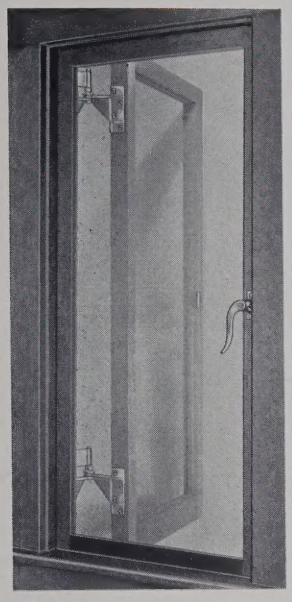
One pair in a box with wood screws.

Specify Class Number

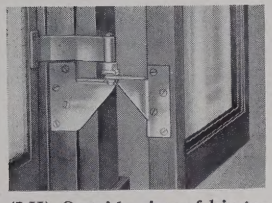
Combination Casement and Screen Hardware

For Out-Swinging Single Casements

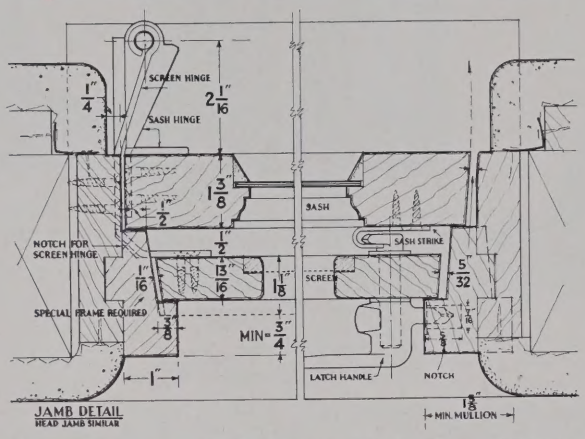
With Adjustable Friction Hinges for Sash

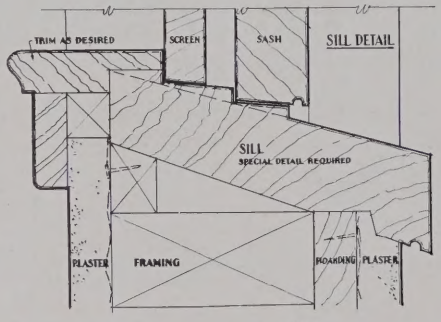


(LH) Applied Inside view

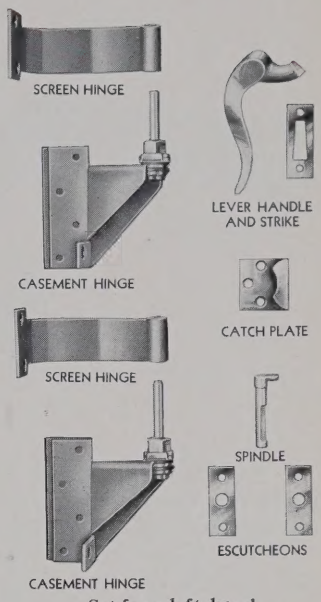


(LH) Outside view of hinges





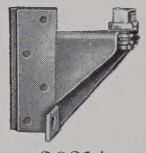
Detail of Frame and Sill



Set for a left-hand single casement

Set 263 Wrought Steel

For Casements



263½

For single wood casements, 1⅜″ in thickness, and ⅞″ screens, swinging both sash and screen outward. Spindle permits application to screens up to 1⅛″ in thickness.

Affords a weather-tite installation and any degree of ventilation. Simple in construction and easy to apply. Hinges are made of wrought steel, toughened and hardened by cold rolling, cadmium plated to resist rust. Lever handle, strike, catch plate, spindle and escutcheons are made of wrought bronze. The adjustable friction hinges keep the sash stationary at any angle up to 180°.

Extension friction hinges permit the outside of the window to be easily cleaned from the inside, and allow screen to be easily removed.

The unique fastener locks both sash and screen. To open sash and close screen a quarter turn of the lever handle permits the screen to be released from the sash and brought back to the jamb for screening purposes.

Not reversible; specify hand.

Extension friction hinges (without pins for screen) are furnished separately under **263½.**

Architectural details available upon request.

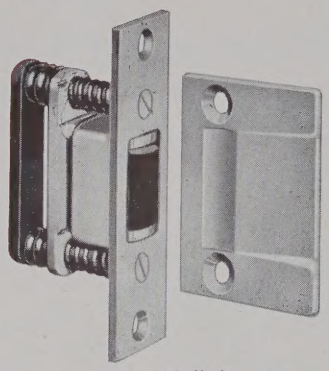
Casement Hinge Flanges (Inches)		Screen Hinge Flange (Inches)	Width Between Flanges (Clearance) (Inches)	Length of Lever Handle (Inches)	Gauge of Metal		Size of Wood Screws		Average Net Weight Per Set (Lbs.)	Average Net Weight Per Pair (Lbs.)
Jamb	Window				Window Hinge	Screen Hinge	Casement Hinge	Screen Hinge	263	263½
3½ x 1⅜	3½ x 1⅛	1⅞ x ⅞	4⅛	3¼	.125	.109	1 x 10	⅞ x 10	2¾	1⅛

One set in a box (either right or left hand) with wood screws; the equipment for one single casement.

Finishes described on page 25

Specify Class Number, (Finish on Handle) and Hand

Roller Latches



One-half full size

Cast Bronze

43 Template
53 Non-Template

For hospital doors, especially those equipped with friction butt hinges. In closing the door, the rubber roller engages in the depression in the strike and holds the door firmly closed, yet a slight push or pull releases it. Operates without noise. The set screws in the face permit adjustment of the rubber roller.

The strike is made regularly for doors 1¾" in thickness. For other thicknesses a special lip is required and a detail should accompany the order.

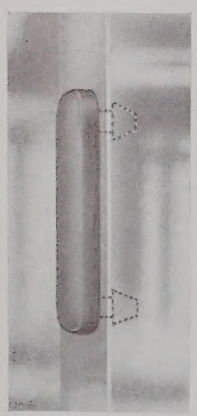
The rubber roller is easily replaced without removing the latch from the door.

Front (Inches)	Strike (Inches)	Depth of Case (Inches)	Width of Case (Inches)	Size of Machine Screws 43	Size of Wood Screws 53	Average Net Weight Per 100 Pieces (Lbs.)
3⅜ x 1	2¼ x 1 11/16	1¾	⅞	½ x 10-24	1 x 10	41

Twelve in a box with screws.

Rubber Bumpers

For Metal Stops



52 Rubber only

For door jamb stops to eliminate the jar of the door as it closes. When the door is closed against the bumper, the compression creates an air cushion which materially reduces the sound.

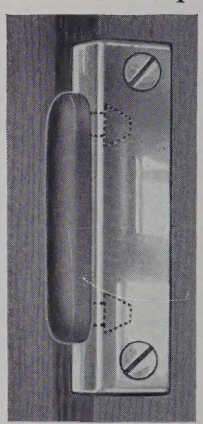
The plate for 52½ is made of wrought brass, highly finished and furnished in various plated finishes.

Three bumpers are recommended for each jamb.

When preparing sinkage or mortise for lock strike, allow 3/32" clearance for the rubber bumpers.

Illustrations applied
Three-quarters full size

For Wood Stops



52½ Rubber with Plate

Length of Rubber Bumper (Inches)	Plate (Inches)	Size of Wood Screws 52½	Average Net Weight Per 100 Dozen (Lbs.) 52	52½
1 13/16	2⅝ x ⅝ x 7/16	¾ x 7	8½	78

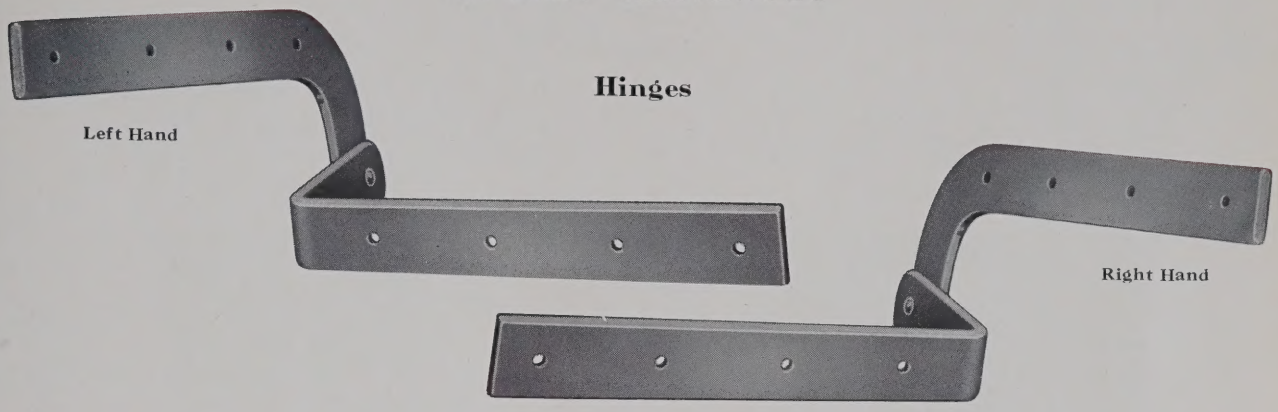
Two dozen in a box; 52½—with wood screws.

Finishes described on page 25

Specify Class Number and (Finish except on 52)

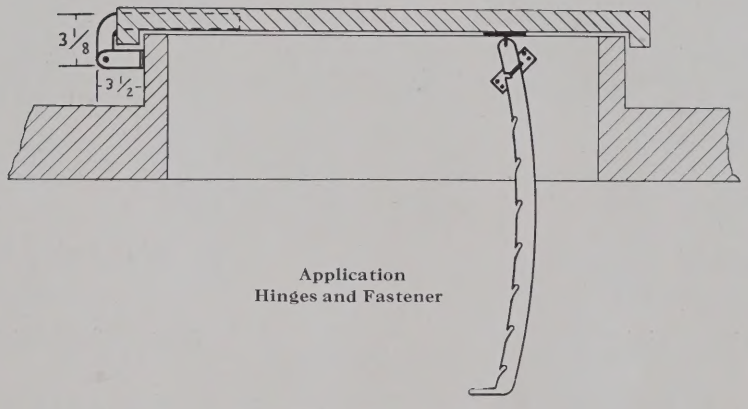
Scuttle Hardware

Hinges



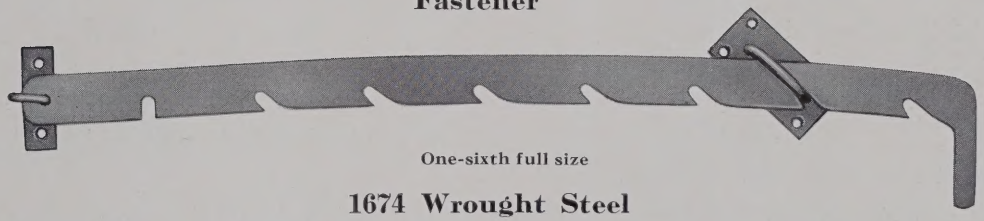
10″ x 12″ One-quarter full size

1634 Wrought Steel



Application
Hinges and Fastener

Fastener



One-sixth full size

1674 Wrought Steel

Made of extra heavy wrought steel.
The hinges are assembled with a spacing washer between leaves, allowing them to operate freely. When closed, the fastener prevents the cover from being raised from the outside.

1634

Size, Length of Leaves (Inches)		Width (Inches)	Gauge of Metal	Size of Screws and Bolts		Average Net Weight Per Pair (Lbs.)
				Curb	Cover	
Curb	Cover			Screws and Bolts	Screws	
10	**12**	1½	.250	2 x 14 RH	2 x 14 RH	6
12	**24**	1½	.250	– x ¼ RH Stove Bolts	2-x 14 RH	9

One pair (one-half right hand) wrapped in paper, with screws and bolts as noted.

1674

Size (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Each (Lbs.)
30 x 1½	.187	2–2 x 14 4–2 x 12	3½

One only wrapped in paper with wood screws.

Furnished in Plain Steel (PS), Japanned (J) or Galvanized (R) finish

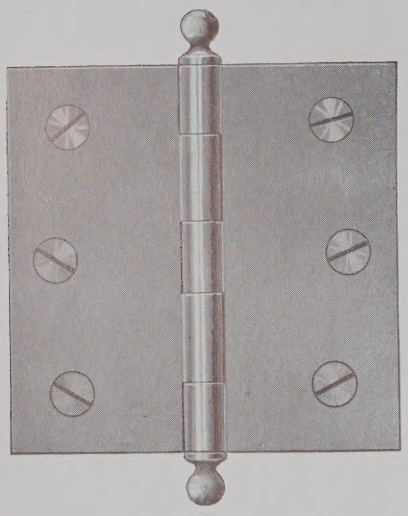
Specify Class Number, Finish and (Size on **1634**, *also Length of Bolts on Size* 12″ *x* 24″)

On 1634 when no size is specified, size 10″ x 12″ will be furnished

Cabinet Butt Hinges

Five Knuckles | Loose Pin | Ball Tips

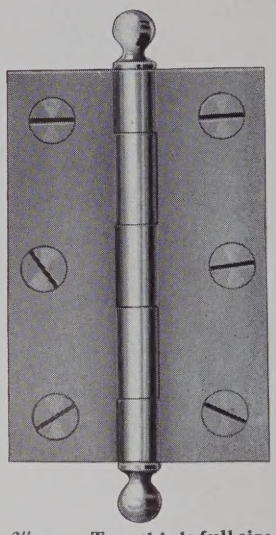
Broad



3″ x 3″ Two-thirds full size

Button Tips
Furnished with 282 and 285
Other numbers on order

Narrow



3″ Two-thirds full size

Wrought Bronze or Brass

189 Finely Finished

Wrought Steel

285 For Painting
289 Planished and Plated
289½ Polished and Plated

Wrought Bronze or Brass

195 Finely Finished

Wrought Steel

282 For Painting
295 Planished and Plated
295½ Polished and Plated

Size 1½″ has three knuckles.

For cabinets, bookcases, china closets, etc.

Made of wrought bronze, brass or steel, toughened and hardened by cold rolling. Pins of nonferrous metal are used in the bronze and brass butt hinges.

On butt hinges for painting, the inner edges of the leaves are milled back, allowing sufficient paint clearance.

Size Open (Inches) 189-285 289-289½	Size Open (Inches) 195-282 295-295½	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.) Broad Bronze	Broad Steel	Narrow Bronze	Narrow Steel	Dozen Pairs in a Case 289	295	Average Case Weight (Lbs.) 289	295
. . . . .	1½ x 1 3/8	.050	4–5/8 x 5	. . .	. . .	1 3/8	1¼	..	..	..	..
2 x 2	2 x 1 9/16	.065	4–¾ x 6	2⅞	2⅝	2½	2¼	15	15	41	36
2½ x 2	2½ x 1 11/16	.065	6–¾ x 6	3½	3¼	3¼	3	15	15	51	46
2½ x 2½	. . . . .	.065	6–¾ x 6	4⅛	3⅞	. . .	. . .	15	..	58	..
3 x 2½	3 x 2	.074	6–¾ x 7	6⅛	5¾	5	4⅝	..	..	..	..
3 x 3	. . . . .	.074	6–¾ x 7	7	6½	. . .	. . .	..	..	..	..

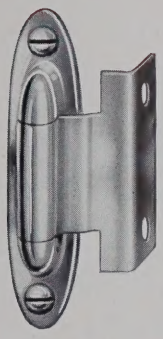
One-half dozen pairs in a box with wood screws.

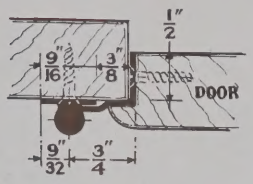
Finishes described on page 25.

Specify Class Number, Finish and Size

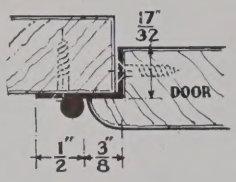
Cabinet Hinges

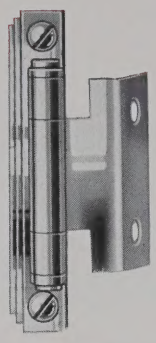
Semi-Concealed





For Lipped Doors



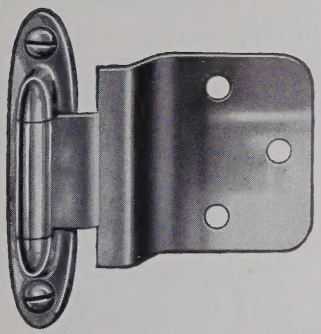


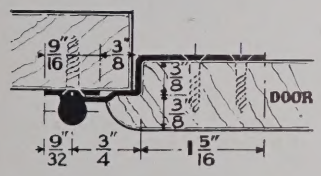
For doors 7/8″ or more in thickness

1520 Wrought Steel
1520½ Wrought Brass

1524 Wrought Steel
1524½ Wrought Brass

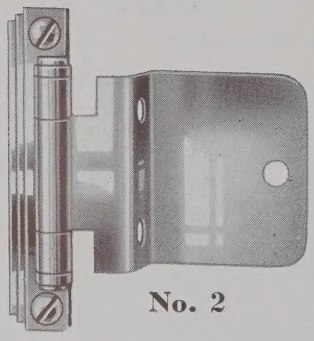
For latches to match, see pages 92, 93.





1518 Wrought Steel
1518½ Wrought Brass

For doors 3/4″ in thickness



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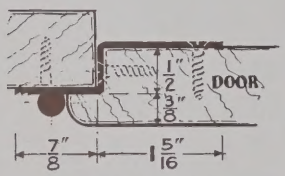

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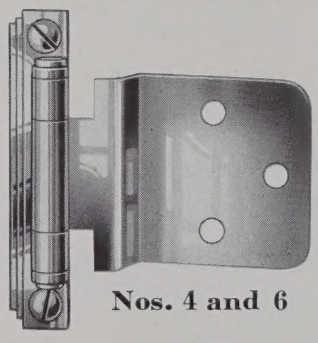
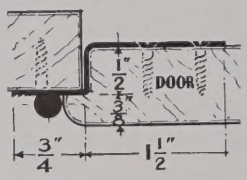
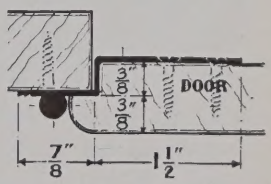


Nos. 4 and 6



Section of No. 4



Section of No. 6

1521 Wrought Steel
1521½ Wrought Brass

Nos. 2 and 4 for doors 7/8″ in thickness

Other offsets on order; submit detail.
For latches to match, see pages 92, 93.

No. 6 for doors 3/4″ in thickness

Particularly adapted to Plywood doors.

Illustrations two-thirds full size

When door is closed only the jamb leaf is visible.

Wrought Steel—Plated
Wrought Brass—Finely Finished

Number	Length of Jamb Leaf (Inches)	Size of Wood Screws OH–FH	Average Net Weight Per Dozen Pairs (Lbs.)
1518-1518½	2 7/16	5/8 x 5	2
1520-1520½	2 7/16	5/8 x 5	1 1/2
1521-1521½	2 1/2	5/8 x 5	2 1/4
1524-1524½	2 1/2	5/8 x 5	1 3/4

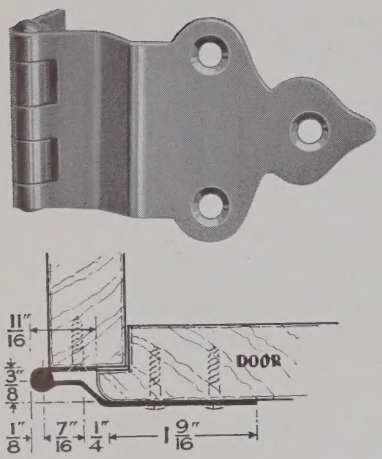
One dozen pairs in a box with wood screws.

Finishes described on page 25.

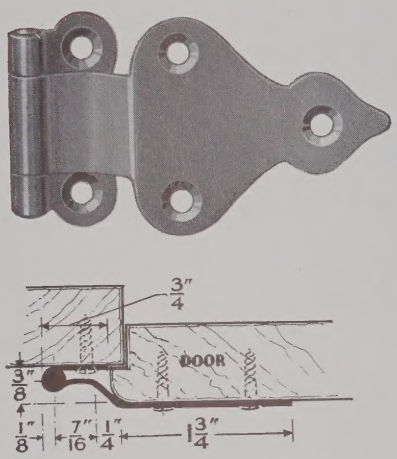
Specify Class Number (also Type Number on **1521, 1521½***) and Finish*

Cabinet Hinges

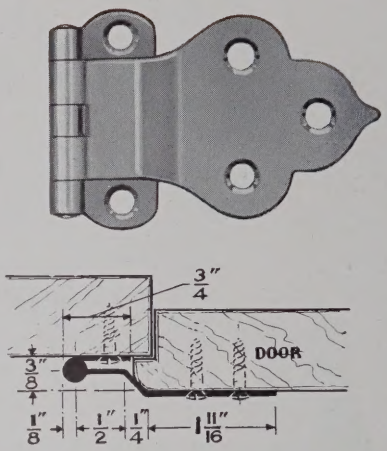
For Lipped Doors



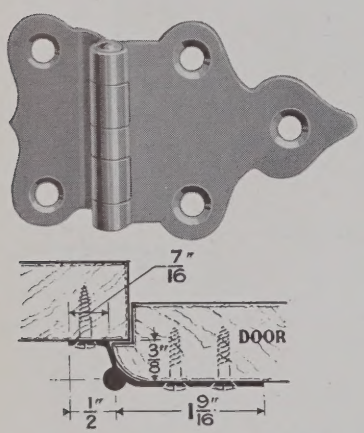
1496½ Wrought Steel



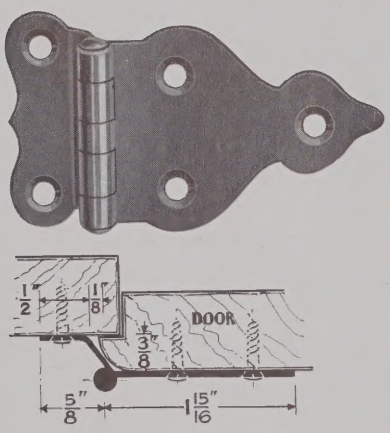
1497 Wrought Steel



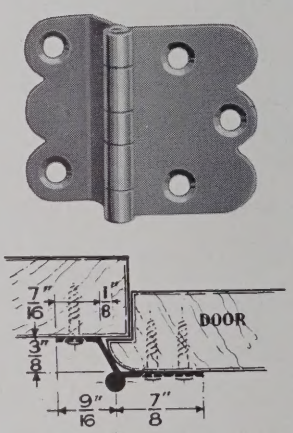
1497½ Wrought Steel



1496 Wrought Steel



1498 Wrought Steel
1498½ Wrought Brass



1499 Wrought Steel

Illustrations three-quarters full size

Wrought Steel—Planished and Plated
Wrought Brass—Finely Finished

Number	Length of Joint (Inches)	Size of OH Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
1496	1¼	⅝ x 5	1½
1496½	1¼	⅝ x 5 OH–FH	2
1497	1¼	⅝ x 5	1¾
1497½	1¼	⅝ x 5	1⅞
1498	1¼	⅝ x 5	1½
1498½	1¼	⅝ x 5	2
1499	1¼	⅝ x 4	1¼

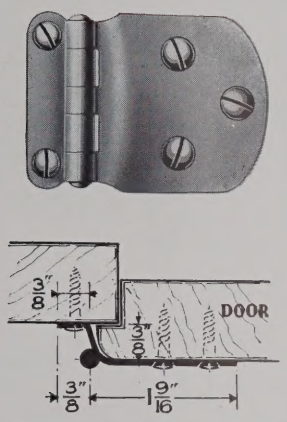
One dozen pairs in box with wood screws.

Finishes described on page 25.

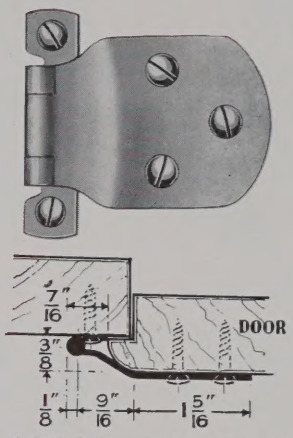
Specify Class Number and Finish

Cabinet Hinges

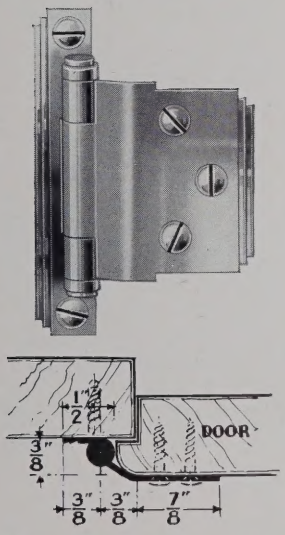
For Lipped Doors



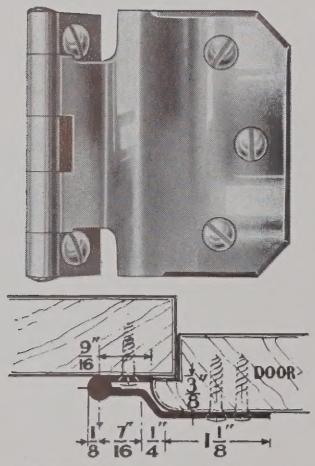
1515 Wrought Steel



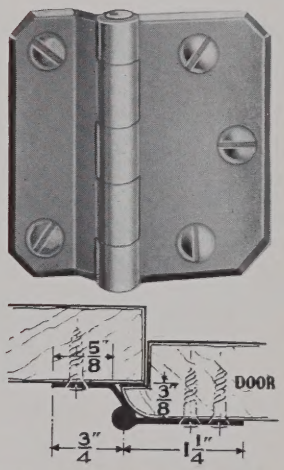
1517 Wrought Steel



1522 Wrought Steel
1522½ Wrought Brass
For latches to match, see pages 92, 93.



1564 Wrought Steel
1561 Wrought Brass



1565 (2″) Wrought Steel
1565½ (2″) Wrought Brass
Also furnished in size 1½″.

Illustrations two-thirds full size

Wrought Steel—Planished and Plated
Wrought Brass—Finely Finished

Number	Size, Length of Jamb Leaf (Inches)	Size of OH Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
1515	1¼	⅝ x 5	1½
1517	1	⅝ x 5	1½
1522-1522½	2½	⅝ x 5	2
1561-1564	2	⅝ x 6	3
1565-1565½	**1½**	⅝ x 6	2⅛
	2	⅝ x 6	2¾

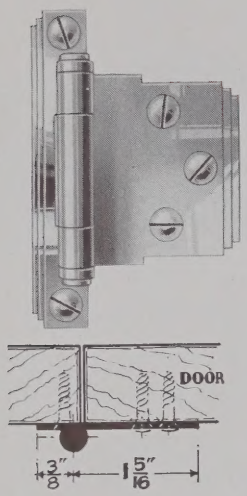
One dozen pairs in a box with wood screws.

Finishes described on page 25.

Specify Class Number, Finish and (Size on **1565, 1565½**)

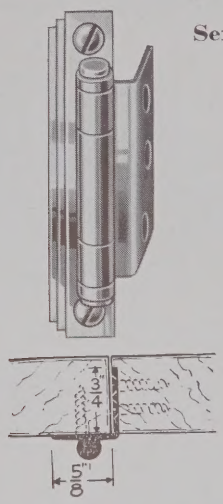
Cabinet Hinges

For Flush Doors

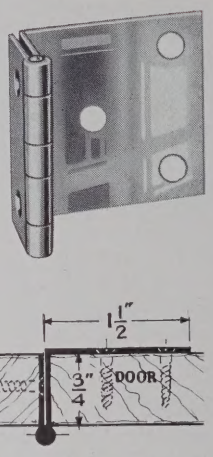


1523 Wrought Steel
1523½ Wrought Brass

Semi-Concealed

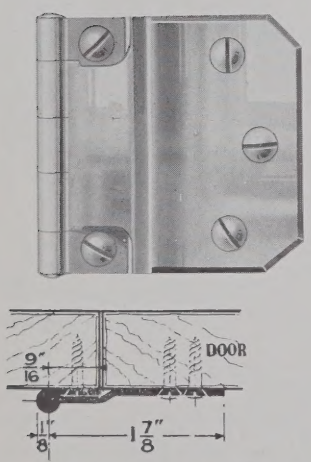


1525 Wrought Steel
1525½ Wrought Brass
For doors ¾″ or more in thickness

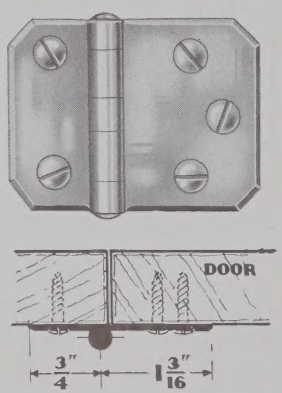


1583 Wrought Steel
1583½ Wrought Brass
For doors ¾″ in thickness
Particularly adapted to Plywood doors.

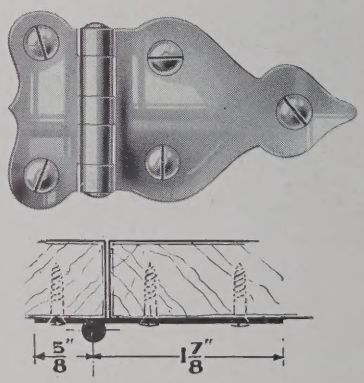
For latches to match, see pages 92, 93.



1564½ Wrought Steel
1561½ Wrought Brass



1566 Wrought Steel
1566½ Wrought Brass



1598 Wrought Steel
1598½ Wrought Brass

Illustrations two-thirds full size

Wrought Steel—Planished and Plated
Wrought Brass—Finely Finished

Number	Length of Joint or Jamb Leaf (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
1523 -1523½	2½	5–⅝ x 5 OH	1¾
1525 -1525½	2½	5–⅝ x 5 OH–FH	1¾
1561½-1564½	2	5–⅝ x 6 OH	2
1566 -1566½	1½	5–⅝ x 6 OH	1¾
1583 -1583½	1½	5–⅝ x 6 FH	2¼
1598 -1598½	1¼	5–⅝ x 5 OH	1¾

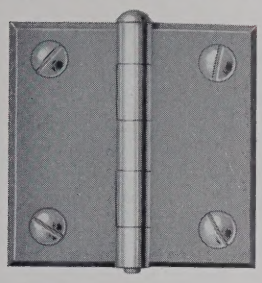
One dozen pairs in a box with screws.

Finishes described on page 25.

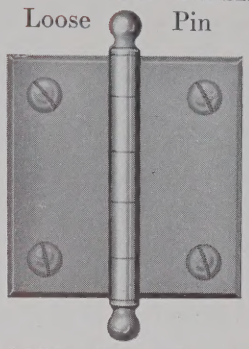
Specify Class Number and Finish

Cabinet Hinges

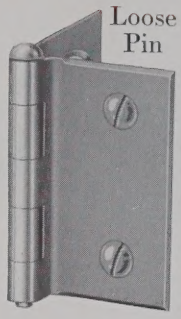
For Flush Doors



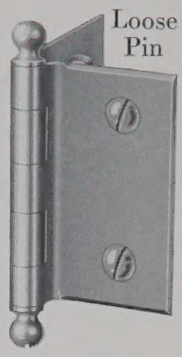
1476 Wr't Steel



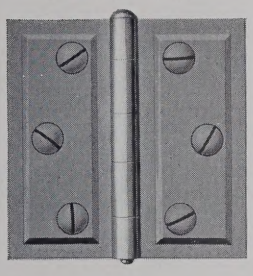
1476½ Wr't Steel



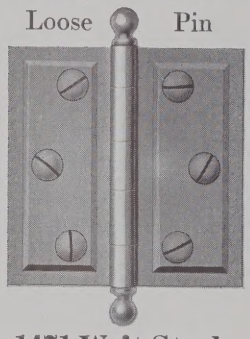
1473 Wr't Steel



1473½ Wr't Steel



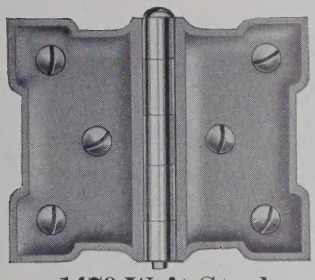
1469 Wr't Steel



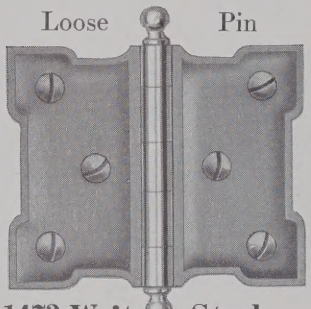
1471 Wr't Steel

1469½ Wr't Steel

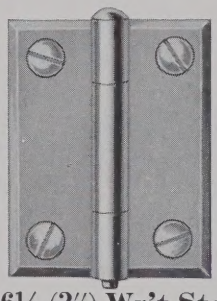
1471½ Wr't Steel



1470 Wr't Steel

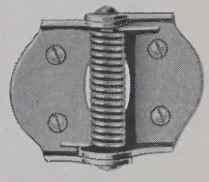


1472 Wr't Steel



286¼ (2″) Wr't Steel

Spring Hinge



343 Wr't Steel

Illustrations two-thirds full size

Size 1½″ has three knuckles.

Planished and Plated

Number	Size, Length of Joint (Inches)	Width Open (Inches)	Width of Jamb Leaf (Inches)	Width of Door Leaf (Inches)	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
286¼	**2**	1½	..	...	4–¾ x 6 OH	2⅛	..	..
	2½	1¾	..	...	6–¾ x 6 OH	2⅝	..	..
343	1¼	1 9/16	..	...	½ x 5 RH	1	..	..
1469	2	2	..	...	⅝ x 5 OH	1⅝	25	56
1469½	2	...	¾	1	⅝ x 5 OH-FH	2	..	..
1470	2	2 7/16	..	...	⅝ x 5 OH	2⅜	25	62
1471	2	2	..	...	⅝ x 5 OH	1⅞	25	59
1471½	2	...	¾	1	⅝ x 5 OH-FH	2	..	..
1472	2	2 7/16	..	...	⅝ x 5 OH	2⅜	25	64
1473	**1½**	...	¾	⅞	⅝ x 5 OH-FH	1⅝	25	40
	***2**	...	1	1⅛	¾ x 7 OH-FH	3	15	45
1473½	**1½**	...	¾	⅞	⅝ x 5 OH-FH	1¾	25	45
	***2**	...	1	1⅛	¾ x 7 OH-FH	3½	15	54
1476	**1½**	1½	..	...	⅝ x 5 OH	1⅛	25	29
	2	2	..	...	¾ x 7 OH	3⅛	15	48
1476½	**1½**	1½	..	...	⅝ x 5 OH	1¼	25	32
	2	2	..	...	¾ x 7 OH	3⅜	15	52

One dozen pairs in a box with wood screws.

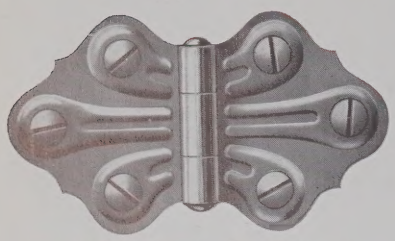
Finishes described on page 25.

*1473 and 1473½. Size 2″ made with ⅜″ offset.

Specify Class Number, Finish and (Size on 286¼, 1473, 1473½, 1476 and 1476½)

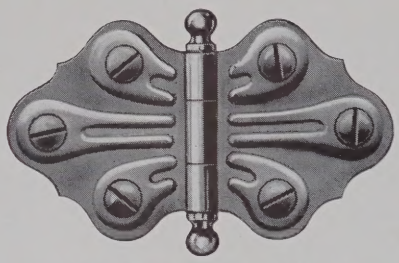
Ornamental Cabinet Hinges

Fast Pin



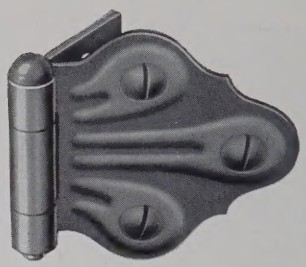
1431 Wrought Steel
1430 Wrought Brass

Fast Pin



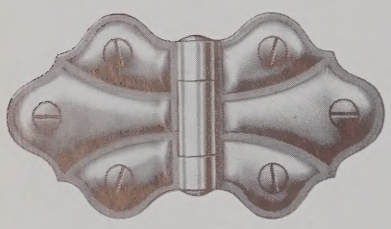
1431½ Wrought Steel

Loose Pin



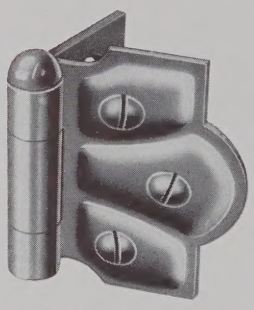
1432 Wrought Steel

Fast Pin



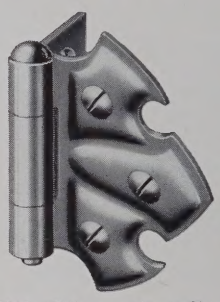
1435 Wrought Steel

Loose Pin



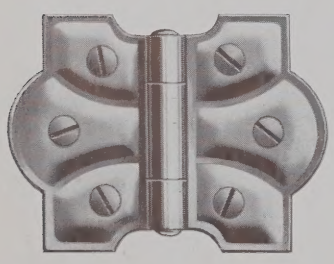
1474 (1½″) Wrought Steel

Loose Pin



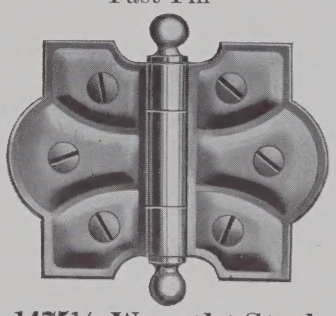
1479 Wrought Steel

Fast Pin

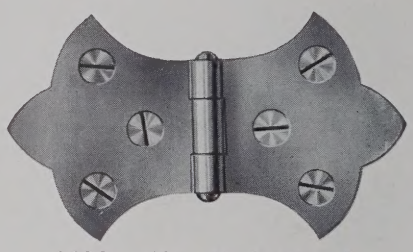


1475 (1½″) Wrought Steel

Fast Pin



1475½ Wrought Steel



1490 (1″) Wr't Steel
1490¼ (1″) Wr't Brass

Illustrations two-thirds full size

Wrought Steel—Planished and Plated
Wrought Brass—Finely Finished

Number	Size, Length of Joint (Inches)	Width Open (Inches)	Width of Jamb Leaf (Inches)	Width of Door Leaf (Inches)	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
1430	1¼	3	..	...	⅝ x 5 OH	2	25	47
1431	1¼	3	..	...	⅝ x 5 OH	1⅞	25	48
1431½	1¼	3	..	...	⅝ x 5 OH	2¼	..	..
1432	1¼	...	¾	1½	⅝ x 5 OH-FH	1½	..	..
1435	1¼	3	..	...	⅝ x 5 OH	2	..	..
1474	1½	...	¾	1 3/16	⅝ x 5 OH-FH	2¼	25	56
	2	...	⅞	1½	¾ x 7 OH-FH	3⅜	..	..
1475	1½	2½	..	...	⅝ x 5 OH	2½	25	65
	2	3	..	...	¾ x 7 OH	3⅞	15	59
1475½	1½	2½	..	...	⅝ x 5 OH	3	..	..
1479	1½	...	¾	1¼	⅝ x 5 OH-FH	1⅞	25	49
1490	¾	2 3/16	..	...	⅝ x 4 FH	⅞	..	..
1490¼	1	3 1/16	..	...	⅝ x 5 FH	1¾	..	..

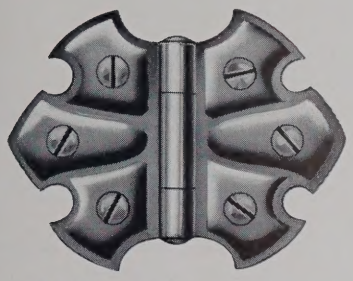
One dozen pairs in a box with wood screws.

Finishes described on page 25.

Specify Class Number, Finish and (Size on **1474, 1475, 1490** *and* **1490¼***)*

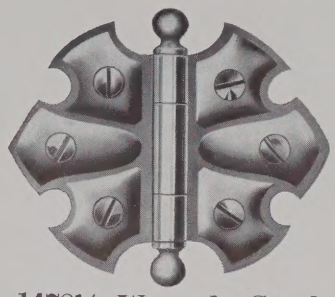
Ornamental Cabinet Hinges

Fast Pin



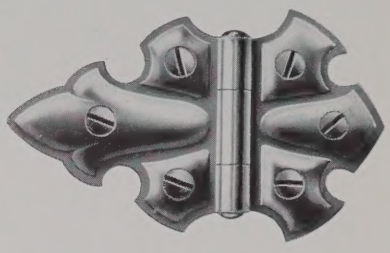
1478 Wrought Steel
1478¼ Wrought Brass

Fast Pin



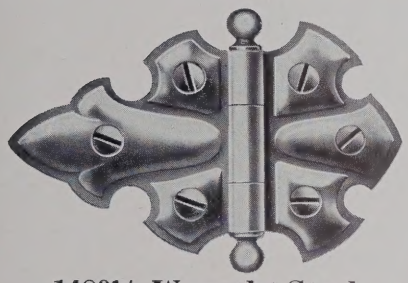
1478½ Wrought Steel

Fast Pin



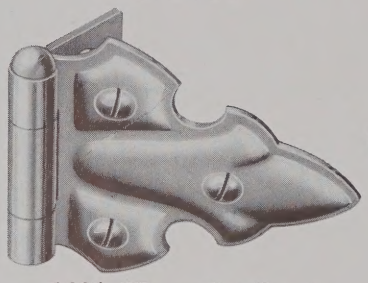
1480 Wrought Steel
1480¼ Wrought Brass

Fast Pin



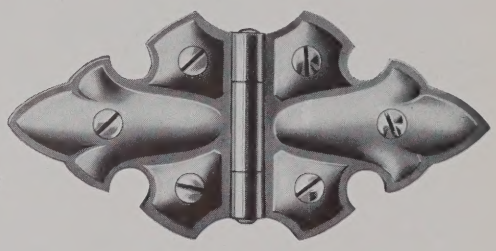
1480½ Wrought Steel

Loose Pin



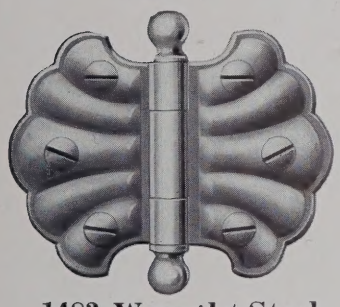
1481 Wrought Steel

Fast Pin



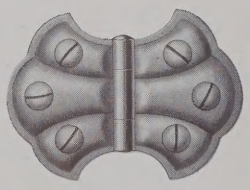
1482 Wrought Steel
1482¼ Wrought Brass

Fast Pin



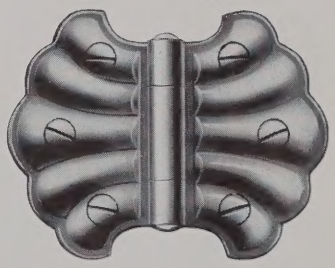
1483 Wrought Steel

Fast Pin



1484 Wrought Steel

Fast Pin



1495 Wrought Steel

Illustrations two-thirds full size

Wrought Steel—Planished and Plated
Wrought Brass—Finely Finished

Number	Length of Joint (Inches)	Width Open (Inches)	Width of Jamb Leaf (Inches)	Width of Door Leaf (Inches)	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
1478	1½	2 ½	...	...	⅝ x 5 OH	2⅛	25	53
1478¼	1½	2 ½	...	...	⅝ x 5 OH	2⅜	..	..
1478½	1½	2 ½	...	...	⅝ x 5 OH	2½	..	..
1480	1½	...	1¼	1⅞	⅝ x 5 OH	2⅜	25	61
1480¼	1½	...	1¼	1⅞	⅝ x 5 OH	2⅝	..	..
1480½	1½	...	1¼	1⅞	⅝ x 5 OH	2¾	..	..
1481	1½	...	¾	2⅛	⅝ x 5 OH-FH	2⅛	..	..
1482	1½	4 ⅛	...	...	⅝ x 5 OH	2½	25	65
1482¼	1½	4 ⅛	...	...	⅝ x 5 OH	2¾	..	..
1483	1½	2 ½	...	...	⅝ x 5 OH	2½	..	..
1484	⅞	1 15/16	...	...	⅝ x 4 OH	¾	25	19
1495	1½	2 ½	...	...	⅝ x 5 OH	2⅜	25	62

One dozen pairs in a box with wood screws.

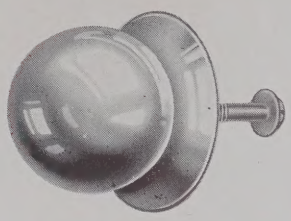
Finishes described on page 25.

Specify Class Number and Finish

Knob Pulls

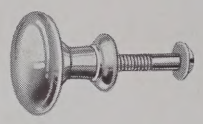
For Wood up to 1⅛″ in Thickness

Size 1″
Weight per dozen, ⅝ lb.

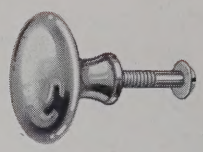


Size 1¼″
Weight per dozen, 1⅛ lbs.

4470 Wrought Brass

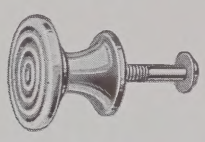


Size ¾″
Weight per dozen, ½ lb.



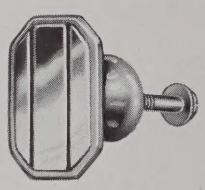
Size 1″
Weight per dozen, ¾ lb.

4471 Wrought Brass



Size 1″
Weight per dozen, ½ lb.

4472 Wrought Brass



Size 1¼″ x ⅞″
Weight per dozen, 1 lb.

4477 Wrought Brass

Illustrations two-thirds full size

One dozen in a box wrapped individually, with washer head machine screws.

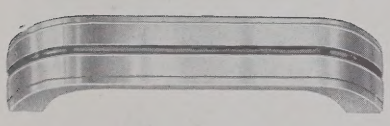
For Knob Pull in Wrought Iron and Black finishes, see 4476, page 65.

Finishes described on page 25

Specify Class Number, Finish and (Size on 4470, 4471)

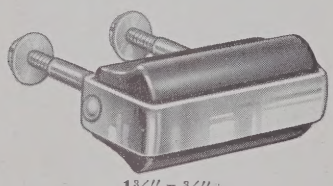
Drawer or Cabinet Pulls

For Wood up to 1⅛″ in Thickness



3⅞″ x ¾″
Weight per dozen, 2¼ lbs.

4473 Forged Brass



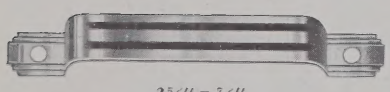
1¾″ x ¾″
Weight per dozen, 1 lb.

4491 Black Composition Grips with Brass (Bright Chromium Plated) Frame

For latch to match, see 1291, page 92.

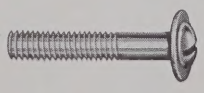
3⅞″ x ½″
Weight per dozen, 1⅞ lbs.

4474 Forged Brass

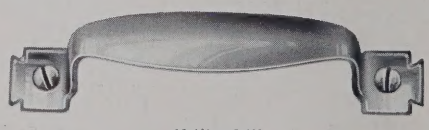


3⅝″ x 7/16″
Weight per dozen, 1 lb.

4475 Wrought Brass



Washer head machine screws furnished with 4473, 4474 and 4491.



4¼″ x ¾″
Weight per dozen, 1 lb.

476 Wrought Steel
476¼ Wrought Brass

Illustrations two-thirds full size

One dozen in a box wrapped individually with screws.

Finishes described on page 25

Specify Class Number and (Finish, except on 4491)

STANLEY
"Multichrome" CABINET HARDWARE
A COMPLETE LINE

Look At These Features

1. INTERCHANGEABILITY OF COLORS

Choice of five colors—Red, Ivory, Black, Blue or Green. The colored plastic inserts can be removed and different colors inserted in a jiffy.

2. FIVE COLORS WITH BUT A SINGLE STOCK

The plastic inserts in various colors may be purchased separately at slight cost. This permits having a five color stock with a single stock of hardware.

3. PERMANENCY OF COLOR

Color will not peel, chip or fade regardless of how often it is cleaned.

4. BEAUTIFUL FINISH

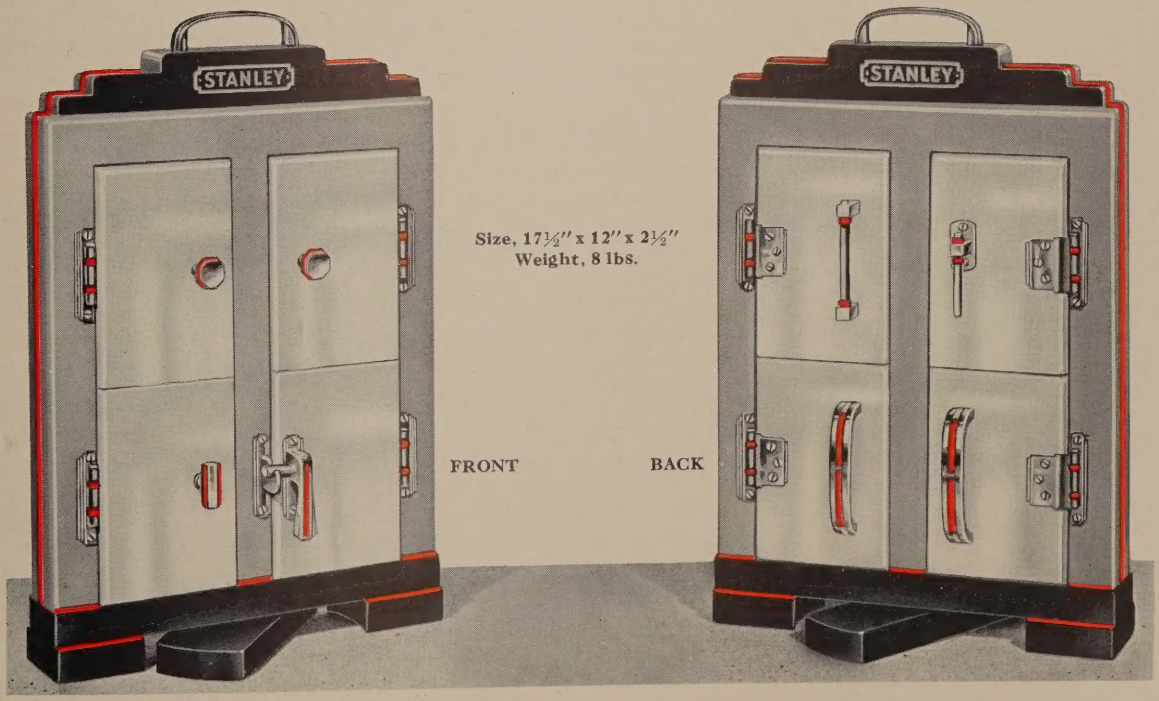
Lustrous CHROMIUM plating over finely finished brass (with choice of steel or brass in hinges).

5. SKILLFUL WORKMANSHIP

Ninety-five years of manufacturing quality hardware is reflected in this *"Multichrome"* line.

THIS ATTRACTIVE WORKING MODEL
Will Do A Real Selling Job

The various working panels equipped with *"Multichrome"* hardware show how the items look when applied and how they function.



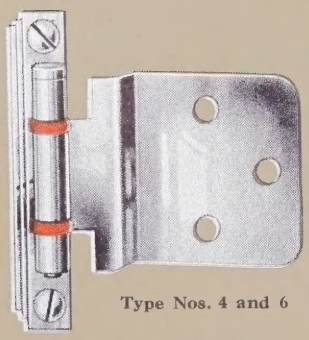
STANLEY **THE STANLEY WORKS** STANLEY

"Multichrome" CABINET HINGES AND LATCHES

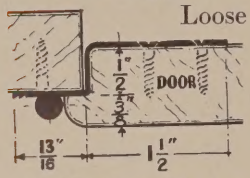
Hinges

For Lipped Doors (3/8" Lip)

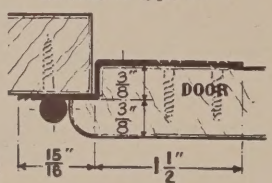
Loose Pin



Type Nos. 4 and 6

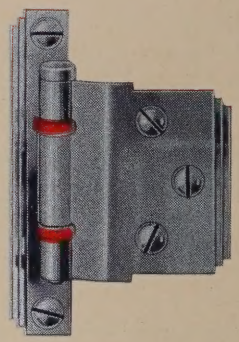


Section of type No 4



Section of type No. 6

Illustrations two-thirds actual size



MC1521 Wrought Steel
MC1521½ Wrought Brass

Other offsets available on order.

MC1522 Wrought Steel
MC1522½ Wrought Brass

Bright Chromium Plated

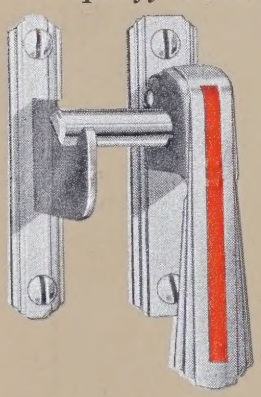
With interchangeable colored plastic inserts in a choice of Red, Ivory, Black, Blue or Green.

Colored plastic inserts can be easily changed by removing loose pin. When applied, the top screw of jamb leaf holds pin in place.

Number	Length of Jamb Leaf (Inches)	Size of Wood Screws OH-FH	Average Net Weight Per Dozen Pairs (Lbs.)
MC1521-MC1521½	2½	5/8 x 5	2¼
MC1522-MC1522½	2½	5/8 x 5	2

One dozen in a box with wood screws.

Specify Class Number and Color (also Type Number on **MC1521** *and* **MC1521½**)



Reversible
Illustration two-thirds actual size

Cabinet Spring Latches

For Lipped Doors (3/8" Lip)
MC1299¾ Wrought Brass

For Flush Doors
MC1299½ Wrought Brass

Bright Chromium Plated

With interchangeable colored plastic inserts in a choice of Red, Ivory, Black, Blue or Green.

When spring latch is loose, the colored plastic insert can be slipped out of the handle from the back, but when attached the color strip is non-removable.

Adaptable to narrow stiles. Reversible by withdrawing the lever and inserting it in opposite side.

Number	Latch Plate (Inches)	Strike (Inches)	Size of OH Wood Screws	Average Net Weight Per Dozen (Lbs.)
MC1299½	25/16 x 19/32	25/16 x 7/16	5/8 x 6	1¾
MC1299¾	25/16 x 19/32	25/16 x 7/16	5/8 x 6	1¾

One dozen in a box with wood screws.

The colored plastic inserts for hinges and latches can be purchased separately at slight cost. This permits having a five-color stock with a single stock of hardware.

Specify Class Number and Color

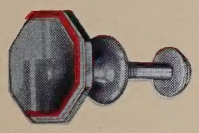
When ordering separate colored plastic inserts, specify class number of item with which they are to be used

Printed in U. S. A.

"Multichrome" PULLS AND LATCH

Knob Pulls

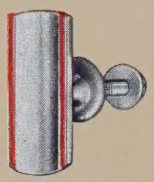
For Wood up to 1⅛" in Thickness



Size ⅞"
Weight, per dozen, ½ lb.

4484 Wrought Brass

Illustrations
two-thirds actual size



Size 1⅜" x ⅝"
Weight, per dozen, ½ lb.

4485 Wrought Brass

Bright Chromium Plated

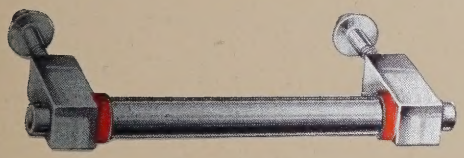
With interchangeable colored plastic inserts in a choice of Red, Ivory, Black, Blue or Green.

The colored plastic inserts are held in place similar to the method of holding a blade in a safety razor. Easily interchangeable but non-removable when attached.

Prongs on back of base prevent turning.

One dozen pulls in a box with washer head machine screws.

Drawer or Cabinet Pull



Size 3½" x ⅜"
Weight, per dozen, 1½ lbs.

4488 Wrought Brass

Bright Chromium Plated

With interchangeable colored plastic inserts in a choice of Red, Ivory, Black, Blue or Green.

The handle and square studs are loose, permitting interchangeability of colored plastic inserts, but when attached all parts are firmly anchored.

One dozen in a box with washer head machine screws.

Cabinet Spring Latch

4298 Wrought Brass

Bright Chromium Plated

With interchangeable colored plastic inserts in a choice of Red, Ivory, Black, Blue or Green.

Colored plastic inserts are easily interchangeable, being held in place by set screw in top of handle.

For lipped or flush doors up to 1⅛" in thickness.

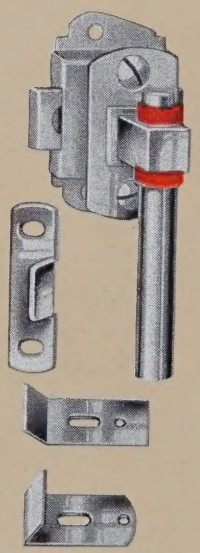
The catch is applied behind the door and only the handle or pull is visible.

Operated by a turn of the handle to the right or left. Reversible for right or left hand doors.

The handle and escutcheon are brass, the catch is steel, cadmium plated.

One-half dozen in a box with wood screws and strikes.

Weight, per dozen, 2 lbs.



Handle, 2⅜"x ⅜"
Catch, 1⅝"x1 1/16"
Escutcheon, 1 1/16"x ¾"

Illustrations two-thirds actual size

The colored plastic inserts can be purchased separately at slight cost. This permits having a five-color stock with a single stock of hardware.

Specify Class Number and Color

When ordering separate colored plastic inserts, specify class number of item with which they are to be used

"Multichrome" PULL AND CATCH

Drawer or Cabinet Pull

For Wood up to 1⅛" in Thickness

Illustration two-thirds actual size
Length 3¾", width ⅝", height 1"

4478 Wrought Brass

Bright Chromium Plated

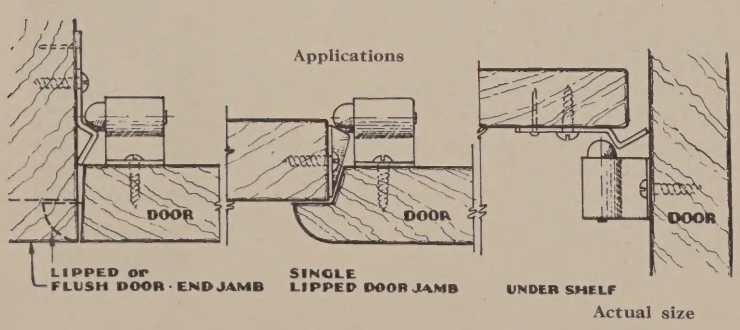
With three interchangeable colored plastic inserts—Red, Ivory and Black.
The colored plastic inserts are easily interchangeable but non-removable when pull is attached.
One dozen in a box with one dozen each of the colored plastic inserts and washer head machine screws. Weight, per dozen, 1¼ lbs.
Blue and Green plastic inserts furnished on order.

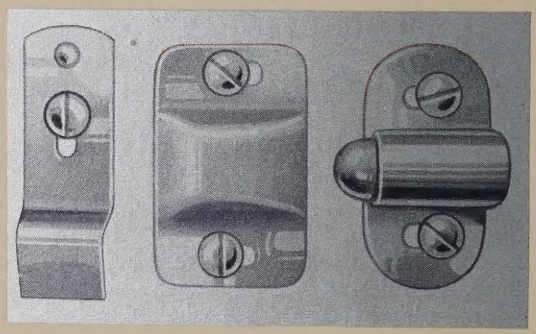
Specify Class Number

Cabinet Spring Catch

a companion number to the complete line of *"Multichrome"* Hardware

For Lipped or Flush Doors





Actual size

33 Wrought Steel

Positive holding. The screw holes are elongated to permit adjustment before being permanently installed.

Case (Inches)	Size of RH Wood Screws	Average Net Weight Per Dozen (Lbs.)
1¼ x ⅝	½ x 4	¾

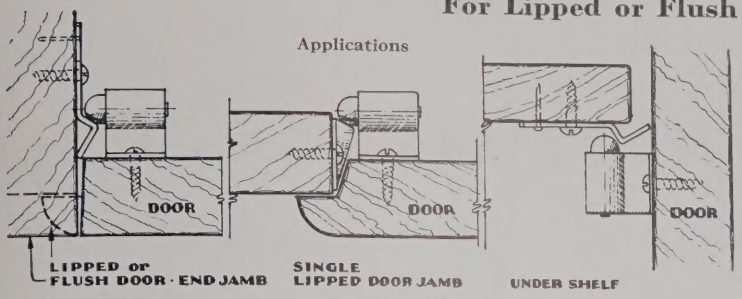
Two dozen in a box with wood screws and nails. Furnished in Nickel finish.

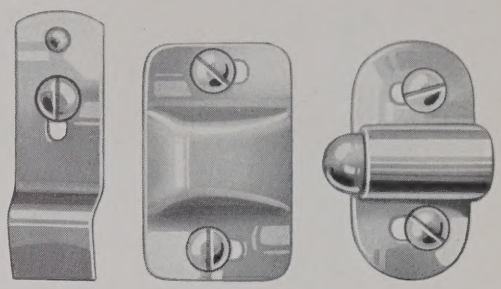
Specify Class Number

Printed in U. S. A.

Cabinet Spring Catches

For Lipped or Flush Doors





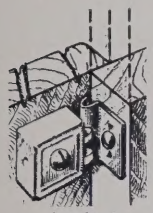
Full size

33 Wrought Steel

The screw holes are elongated to permit adjustment before being permanently installed.

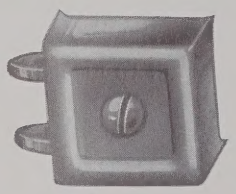
Case (Inches)	Size of RH Wood Screws	Average Net Weight Per Dozen (Lbs.)
1¼ x ⅝	½ x 4	¾

Two dozen in a box with wood screws and nails. Furnished in Nickel finish.



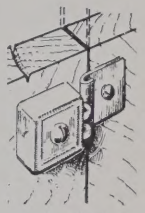
Applied Lipped Doors

Strike for Lipped Doors



Full size

Strike for Flush Doors

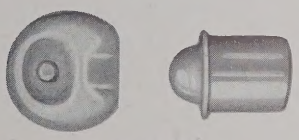


Applied Flush Doors

38 Wrought Steel
38½ Wrought Brass

Size (Inches)	Size of RH Wood Screws		Average Net Weight Per Dozen (Lbs.)
	Catch	Strikes	
13/16 x 13/16 x 7/16	⅞ x 7	½ x 5	1⅛

Two dozen in a box with wood screws. Furnished in Nickel finish.



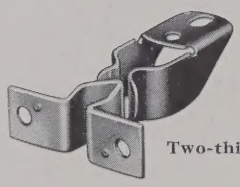
Full size

30 Wrought Brass

With wrought steel strike and plunger.

Outside Diameter of Shell (Inches)	Depth of Boring (Inches)	Diameter of Strike (Inches)	Average Net Weight Per Gross (Lbs.)
⅜	½	⅝	1½

One gross in a box with ⅝″ x 18 barbed nails for strike. Furnished in Nickel finish.



Two-thirds full size

37 Wrought Steel

The end screw hole in the catch is elongated to permit adjustment before being permanently installed. The plunger is made with spurs on the back which make impressions in the door to facilitate easy application.

Catch is made of tempered spring steel insuring positive operation at all times.

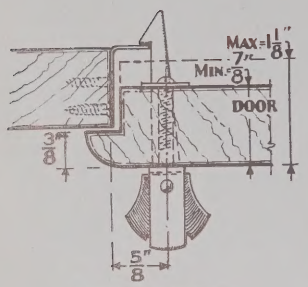
Catch (Inches)	Plunger (Inches)	Size of RH Wood Screws	Average Net Weight Per Gross (Lbs.)
1⅜ x ½	15/16 x 7/16	½ x 5	4½

One gross in a box with wood screws. Finish — Catch, Blued; Plunger, Brass or Nickel Plated.

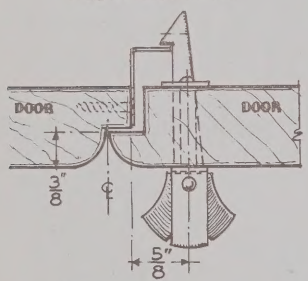
Specify Class Number and Finish

Cabinet Spring Latches

For Lipped or Flush Doors

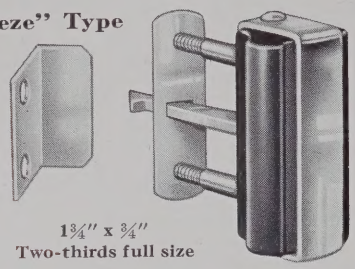


Lipped Single Door



Lipped Pair of Doors
When desired strike can be applied under shelf

"Squeeze" Type



1¾" x ¾"
Two-thirds full size

1291

For lipped or flush doors ¾" up to 1⅛" in thickness.

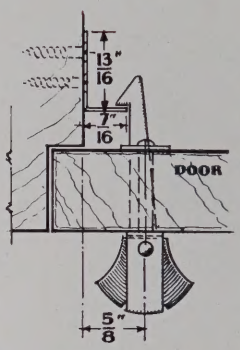
The grips of the catch are of black composition and the frame is brass, bright chromium plated.

Operated by squeezing the grips.

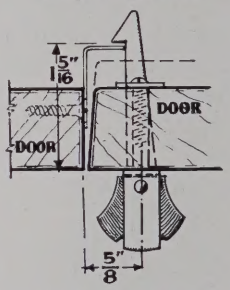
Reversible for right or left hand doors.

For drawer pull to match, see 4491, page 90.

One dozen in a box with screws. Weight, 1½ lbs.

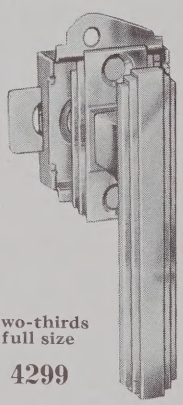


Flush Single Door



Flush Pair of Doors

Semi-Concealed



Two-thirds full size

4299

For lipped or flush doors up to 1⅛" in thickness.

The catch is applied behind the door and only the handle or pull is visible.

Operated by a turn of the handle to the right or left.

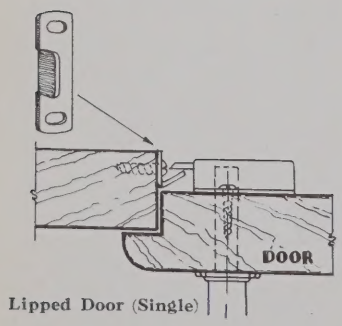
Reversible for right or left hand doors.

For hinges to match, see pages 83, 85, 86.

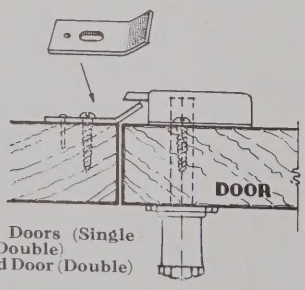
Handle,	2½" x 7/16"
Catch,	1⅝" x 1 1/16"
Escutcheon,	1 5/16" x ¾"

The handle is a die casting of nonferrous metal, the catch is steel, cadmium plated.

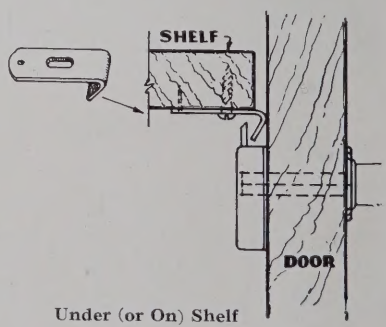
Showing Various Applications of Strikes



Lipped Door (Single)



Flush Doors (Single or Double)
Lipped Door (Double)



Under (or On) Shelf

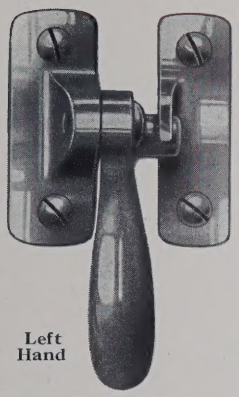
One dozen in a box with wood screws and strikes as illustrated. Weight per dozen, 2 lbs.

Finishes described on page 25

Specify Class Number and (Finish, except on **1291**)

Cabinet Spring Latches

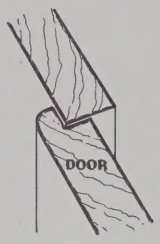
For Lipped or Flush Doors



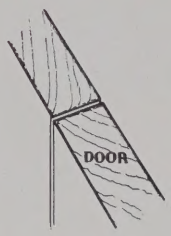
Left Hand

For Lipped Doors
1293 Cast Brass

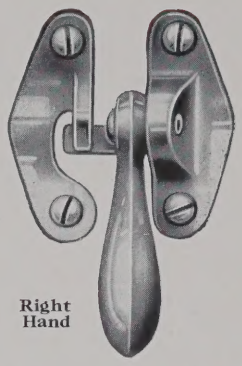
For Flush Doors
1292 Cast Brass



Lipped Door (3/8" Lip)



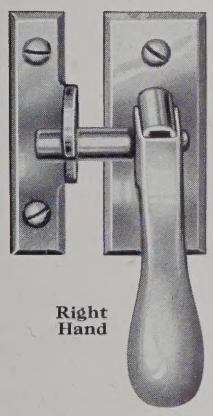
Flush Door



Right Hand

For Lipped Doors
1298¼ Cast Brass

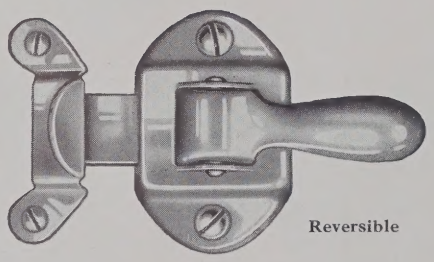
For Flush Doors
1298 Cast Brass



Right Hand

For Lipped Doors
1295 Wrought Steel
1295½ Wrought Brass

For Flush Doors
1294 Wrought Steel
1294½ Wrought Brass

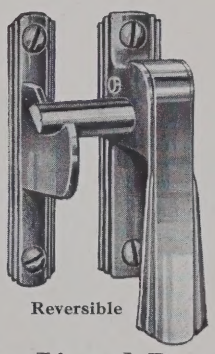


Reversible

For Lipped Doors
1297¼ Wrought Steel

For Flush Doors
1297 Wrought Steel

Illustrations two-thirds full size



Reversible

For Lipped Doors
1299¼ Wrought Steel
1299¾ Wrought Brass

For Flush Doors
1299 Wrought Steel
1299½ Wrought Brass

Adaptable for narrow stiles. Made reversible by pulling lever out and pushing it through opposite side.

For hinges to match, see pages 83, 85, 86.

Wrought Steel—Planished and Plated
Wrought and Cast Brass—Finely Finished

Number	Latch Plate (Inches)	Strike (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
1292	2 x 13/16	2 x 5/8	5/8 x 6 OH	2 3/8
1293	2 x 13/16	2 x 5/8	5/8 x 6 OH	2 1/2
1294 -1294½	1 7/8 x 3/4	1 7/8 x 7/16	5/8 x 6 RH	1 3/4
1295 -1295½	1 7/8 x 3/4	1 7/8 x 7/16	5/8 x 6 RH	1 7/8
1297 -1297¼	1 7/8 x 1 1/8	1 11/16 x 5/8	3/4 x 6 OH-5/8 x 6 RH	1 1/8
1298 -1298¼	1 3/4 x 11/16	1 3/4 x 11/16	5/8 x 6 OH	1 3/8
1299 -1299½	2 5/16 x 19/32	2 5/16 x 7/16	5/8 x 6 OH	1 3/4
1299¼-1299¾	2 5/16 x 19/32	2 5/16 x 7/16	5/8 x 6 OH	1 3/4

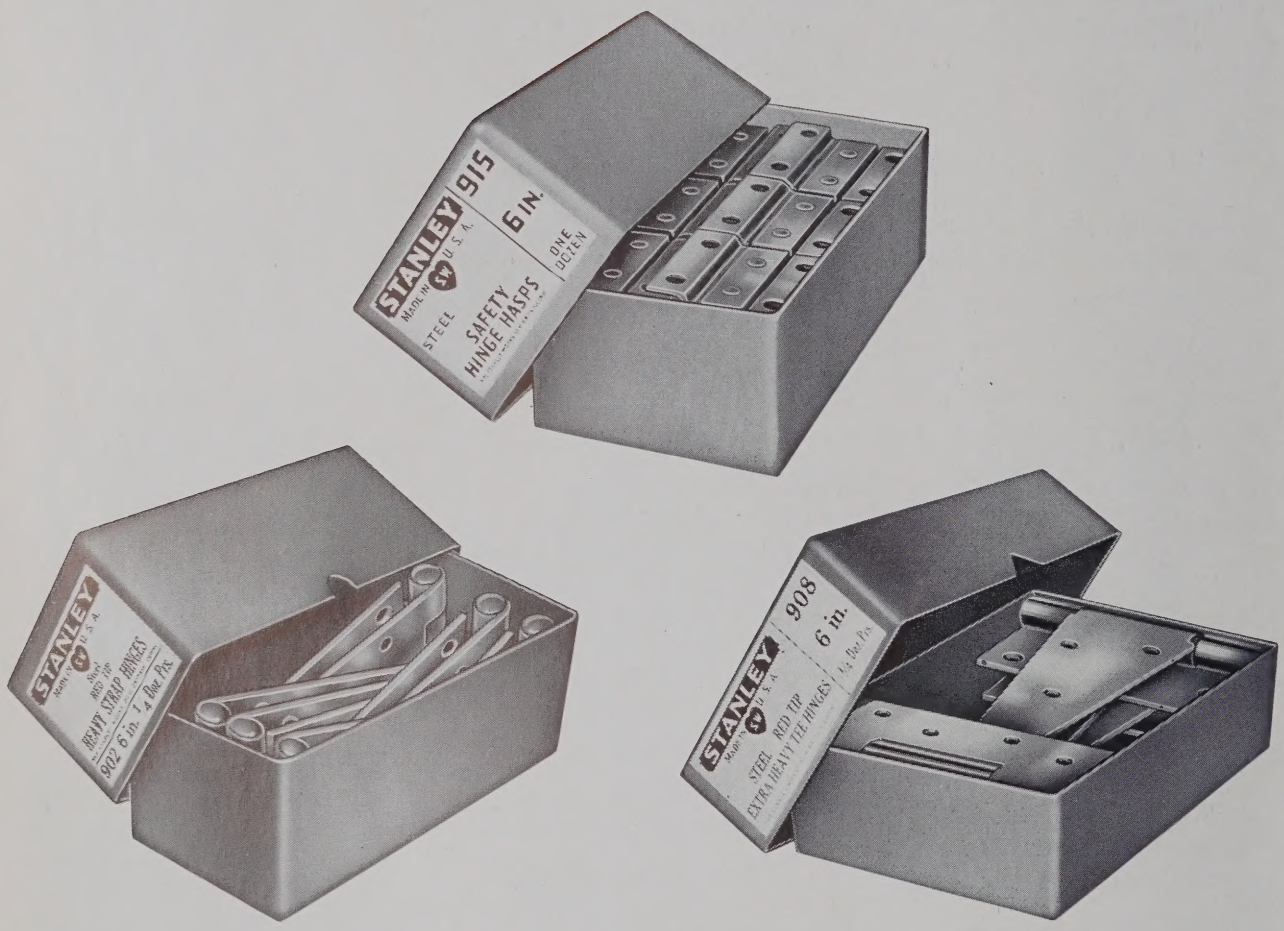
One-half dozen in a box (except 1297 and 1297¼ which are one dozen) with wood screws.

Finishes described on page 25

Specify Class Number and Finish, also (Hand, except on 1297, 1297¼, 1299, etc.)

Hasps, Strap and T-Hinges

"Red-Tipped"



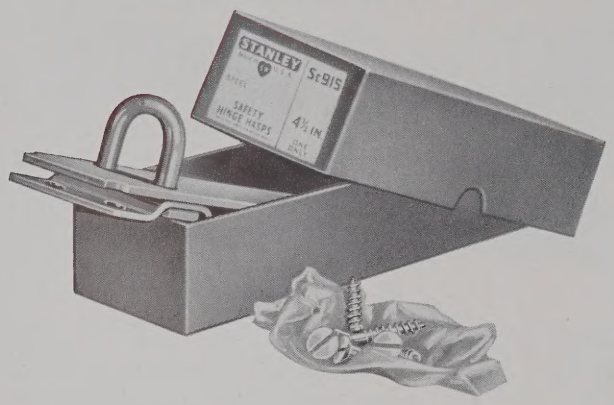
Bulk Hasps and Hinges Packed in Boxes

A real improvement in packing hasps, strap and tee hinges—small units of a dozen pairs and less in a strong cardboard box. They make a compact, neat package which can be stocked on shelves—not tossed into a dark, hard-to-get-at bin.

The small units can in many cases be sold intact to the consumer, avoiding the necessity of packaging by the dealer. The case (carton) quantities are also smaller than formerly furnished, enabling the trade to purchase in full case quantities.

Packed hasps and hinges eliminate the frequent cuts and scratches common with handling wired goods.

Hasps



One in a Box with Screws

Hasps designated by the letters "Sc" prefixed to the class number are packed one in a box with correct quantity and size of wood screws. Each box has been designed to provide a strong, durable container, which will arrive in the customer's hands in perfect condition.

Made full gauge, with close-fitting joints and accurate countersinking.

The screws for the various hasps have been carefully selected as to size and length so as to be best adapted to each particular style and size of hasp. They are wrapped separately in paper.

Time is saved for the merchant and the customer. The customer is assured of receiving the correct quantity and size of screws when the hasps are purchased, and the stock is kept clean and neat.

Sc915 furnished on order with case hardened staple.

Sc915 furnished in **Wrought Brass** under **Sc1860, 3½″, 4½″** and **6″**.

Wrought Steel

Plain Steel Japanned Cadmium Galvanized

			3″	3½″	4½″	6″	7″	8″	10″	12″
Sc912 ...Plain Steel **Sc912J** ..Japanned **Sc1308** ...Galvanized **Sc1308¼** .Galvanized with Brass Pin	Average Net Weight Per 100 pieces	(Lbs.)	21	...	27	54	...	78	125	194
	Hasps in Case (Carton)		100	...	100	50	...	Packed as ordered	Packed as ordered	Packed as ordered
	Case Weight	(Lbs.)	22	...	28	28	...			
Sc915 ...Plain Steel **Sc915J** ..Japanned **Sc915K** .Cadmium **Sc1310** ...Galvanized with Brass Pin	Average Net Weight Per 100 pieces	(Lbs.)	...	30	40	79	93	...	...	...
	Hasps in Case (Carton)		...	100	100	50	Packed as ordered	...	...	...
	Case Weight	(Lbs.)	...	31	41	41		...	...	...
Sc917 ...Plain Steel **Sc917J** ..Japanned **Sc917K** .Cadmium	Average Net Weight Per 100 pieces	(Lbs.)	...	30	40	77	...	...	...	...
	Hasps in Case (Carton)		...	100	100	50	...	...	...	...
	Case Weight	(Lbs.)	...	31	41	40	...	...	...	...

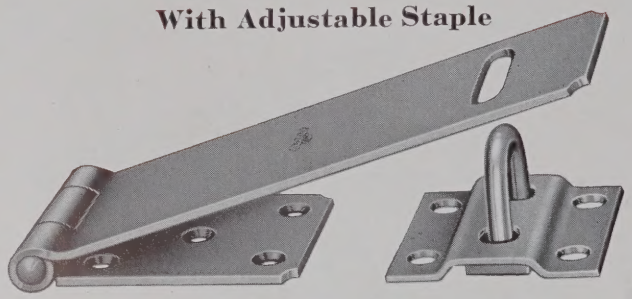
Specify Class Number and Size

Safety Hasps

With Adjustable Staple

Wrought Steel
Without Screws
915 Plain Steel

Wrought Brass
With Wood Screws
Sc1860, 3½″, 4½″ and 6″, one in a box. See page 95.



6″ One-half full size

Wrought Steel
With Wood Screws
915J Japanned
915K Cadmium Plated
Sc1310 Galvanized with Brass Pin, one in a box. See page 95.

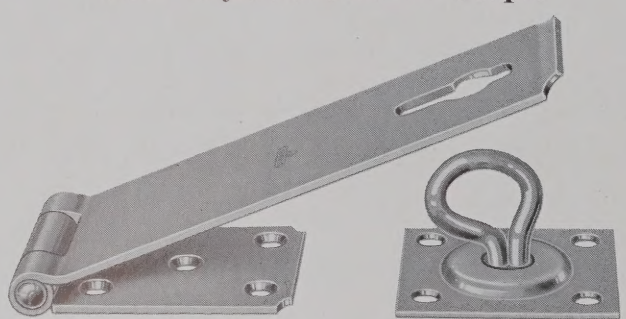
When fastened all screws are concealed and cannot be removed.
The adjustable feature of the staple permits the hasp to operate when the position of the door is changed by shrinkage. The staple is in a vertical position, which permits the padlock to lie flat.

Size, Length of Slotted Part (Inches)	Hinge Part (Inches)	Length of Joint (Inches)	Staple Plate (Inches)	Gauge of Metal		Quantity and Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)		Dozen in a Case	Average Case Weight (Lbs.)
				Hasp	Staple		915	915J-K	915	915
3½	1 5/16 x 1½	1½	1 13/16 x 1½	.077	.065	7– ¾ x 7	3	3½	20	62
4½	2¼ x 1½	1½	1 13/16 x 1½	.089	.065	7– ⅞ x 7	4	4¾	15	63
6	2¾ x 1⅞	1⅞	2 3/16 x 1⅞	.107	.071	9–1 x 9	8	9¼	5	42
7	3 x 2½	2½	3 x 2½	.160	.160	9–1¼ x 11	21½	24	..	..

915—6″ and smaller one dozen in a box; 7″ one-quarter dozen; without screws. 915J and 915K—3½″ and 4½″, one dozen in a box; 6″ one-half dozen; 7″ one-quarter dozen; with wood screws.

With Adjustable Swivel Staple

Wrought Steel
Without Screws
917 Plain Steel



6″ One-half full size

Wrought Steel
With Wood Screws
917K Cadmium Plated

When fastened, all screws are concealed and cannot be removed. A quarter turn of the swivel staple makes it possible to secure the door without the use of a padlock.
The adjustable feature of the staple permits the hasp to operate when the position of the door is changed by shrinkage. The staple when closed is in a vertical position, which permits the padlock to lie flat.
Made with a lip turned up on the end of the slotted part.

Size, Length of Slotted Part (Inches)	Hinge Part (Inches)	Length of Joint (Inches)	Staple Plate (Inches)	Gauge of Metal		Quantity and Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)		Dozen in a Case	Average Case Weight (Lbs.)
				Hasp	Staple		917	917K	917	917
3½	1 5/16 x 1½	1½	1¾ x 1 9/16	.077	.058	7– ¾ x 7	3	3½	20	62
4½	2¼ x 1½	1½	1¾ x 1 9/16	.089	.058	7– ⅞ x 7	4	4¾	15	63
6	2¾ x 1⅞	1⅞	2⅜ x 1 15/16	.107	.065	9–1 x 9	8	9¼	5	42

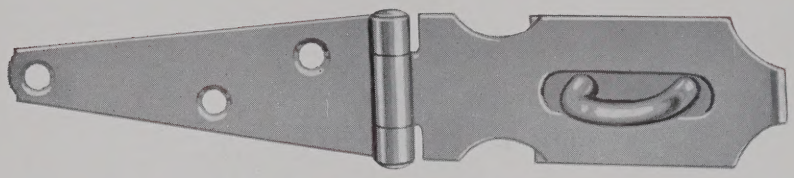
917—one dozen in a box without screws. 917K—3½″ and 4½″, one dozen in a box; 6″ one-half dozen; with wood screws.

Specify Class Number and Size

For one in a box with screws, see page 95

Hinge Hasps

"Red-Tipped"



3″ Two-thirds full size (open position)

Wrought Steel

Without Screws

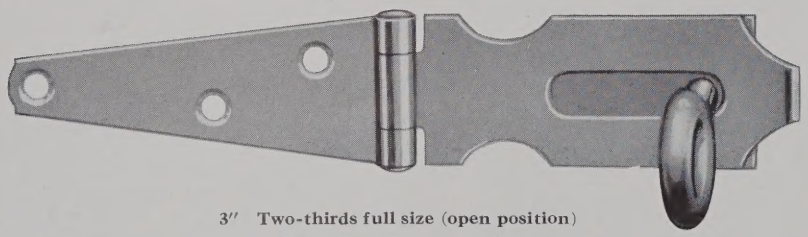
912 Plain Steel **1308** Galvanized **1308¼** Galvanized with Brass Pin

Stanley Hinge Hasps are known by their "red tips," a guarantee of Stanley quality and workmanship. Made full gauge, with close-fitting joints and accurate countersinking.
Sizes 3″ and 4½″ made with a lip turned up on the end of the slotted part.

Size, Length of Strap (Inches)	Length of Slotted Part (Inches)	Length of Joint (Inches)	Staple Plate (Inches)	Gauge of Metal		Quantity and Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
				Hasp	Staple				
3	3	1⅛	1½ x 1⅛	.065	.089	7– ¾ x 6	2	25	52
4½	3¼	1⅛	1½ x 1⅛	.077	.089	8– ¾ x 6	2⅝	25	69
6	4	1 9/16	2 x 1¼	.089	.104	8–1 x 9	5⅛	10	53
8	4¼	1⅞	2 1/16 x 1½	.101	.123	8–1 x 10	8½	5	42
10	5 7/16	2 1/16	2¾ x 2 1/16	.104	.150	8–1¼ x 10	14½	3	41
12	6	2¾	2¾ x 2 1/16	.115	.150	8–1¼ x 12	19½	2	40

6″ and smaller one dozen in a box; larger sizes one-half dozen; without screws.

With Swivel Staple



3″ Two-thirds full size (open position)

Wrought Steel

Without Screws

914 Plain Steel

Stanley Hinge Hasps are known by their "red tips," a guarantee of Stanley quality and workmanship. Made full gauge, with close-fitting joints and accurate countersinking.
A quarter turn of the swivel makes it possible to secure the door without the use of a padlock. The staple when closed is in a vertical position which permits the padlock to lay flat.
Sizes 3″ and 4½″ made with a lip turned up on the end of the slotted part.

Size, Length of Strap (Inches)	Length of Slotted Part (Inches)	Length of Joint (Inches)	Staple Plate (Inches)	Gauge of Metal		Quantity and Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
				Hasp	Staple				
3	3	1⅛	1½ x 1⅛	.065	.089	7– ¾ x 6	2⅜	25	60
4½	3¼	1⅛	1½ x 1⅛	.077	.089	8– ¾ x 6	3	25	76
6	4	1 9/16	2 x 1¼	.089	.104	8–1 x 9	5⅝	10	57
8	4¼	1⅞	2 1/16 x 1½	.101	.123	8–1 x 10	8½	5	43

6″ and smaller one dozen in a box; 8″ one-half dozen; without screws.

Specify Class Number and Size

For one in a box with screws (except 914), see page 95

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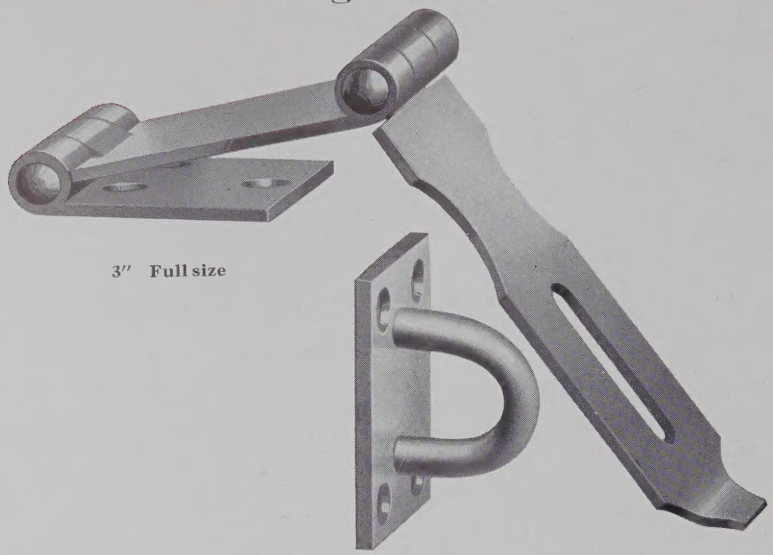
Hinge Hasps



3″ Full size

Wrought Steel

925 Plain Steel without screws

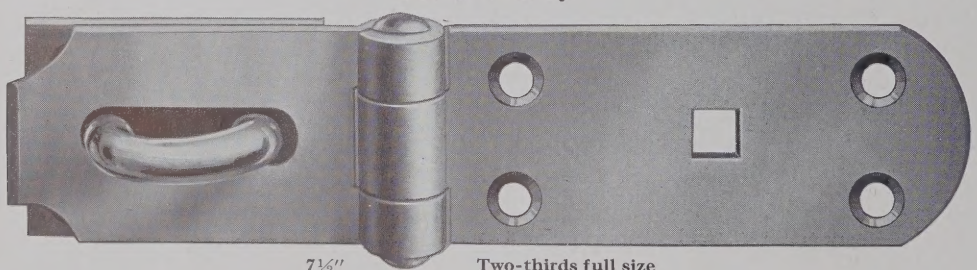
925J Japanned with wood screws **925K** Cadmium Plated with wood screws

For tool chests, etc. When fastened all screws are concealed and cannot be removed.
A practical hasp for sliding doors. Made with a lip turned up on the end of the slotted part.

Size, Length of Slotted Part (Inches)	Hinge Part (Inches)	Staple Plate (Inches)	Distance Between Centers of Hinges (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)	
						925	925J 925K
3	1⅜ x 1 1/16	1½ x 1⅛	1 11/16	.065	7– ¾ x 7	2⅝	3¼
4	1¾ x 1 9/16	2 x 1¼	2 11/16	.089	7–1 x 9	6¼	7

3″ one dozen in a box; 4″ one-half dozen; 925, without screws, 925J and 925K, with wood screws.

Extra Heavy



7½″ Two-thirds full size

Wrought Steel

941 Plain Steel without screws

941J Japanned with wood screws **1356** Galvanized with Brass Pin with wood screws

For security against removal, a carriage bolt can be used through the square hole.
A practical hasp for sliding doors. Made with a lip turned up on the end of the slotted part.

Size, Length Overall (Inches)	Length of Slotted Part (Inches)	Length of Hinge Part (Inches)	Length of Joint (Inches)	Staple Plate (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)		Dozen in a Case	Average Case Weight (Lbs.)	
							941	941J 1356		941	941J 1356
7½	3½	4 1/16	1¾	2½ x 1¾	.165	8–1¼ x 12	11½	12½	5	60	64
9	4	5	2⅛	2¾ x 2⅛	.180	8–1½ x 12	18	19	..	..	..
10	4	6	2⅛	2¾ x 2⅛	.180	8–1½ x 12	19½	20½	..	..	..
12	5	7	2⅛	2¾ x 2⅛	.180	10–1½ x 12	22½	23½	..	..	..

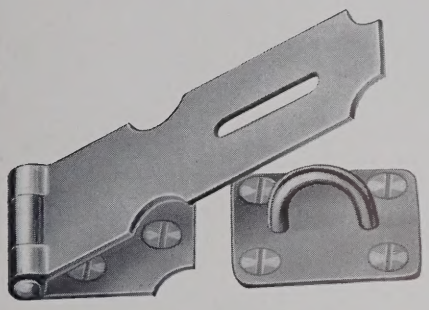
7½″ one-half dozen in a box; larger sizes one-quarter dozen; 941 without screws, 941J and 1356 with wood screws.

Specify Class Number and Size

Light Hasps and Hinges

For Baskets, Boxes, Chests, Cabinets, Etc.

Safety Hasps



Three-quarters full size

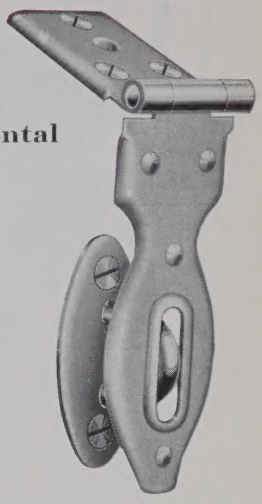
346 Wrought Steel
1862 Wrought Brass

Hinge Hasp

2″ Three-quarters full size

349 Wrought Steel

Ornamental Hinge Hasp

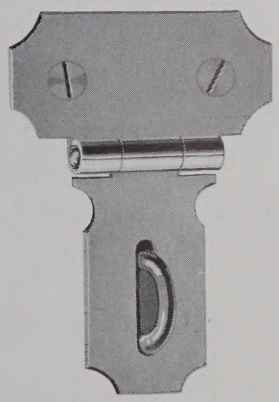


Three-quarters full size

930 Wrought Steel

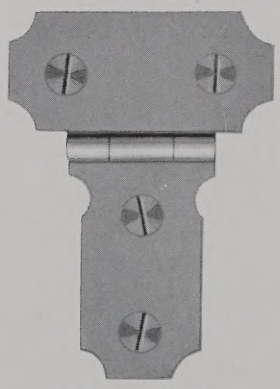
Number	Size, Length of Slotted Part (Inches)	Hinge Part (Inches)	Length of Joint (Inches)	Staple Plate (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
346	2 5/8	1 1/8 x 15/16	15/16	1 1/8 x 15/16	.050	5/8 x 4	1
1862	2 5/8	1 1/8 x 15/16	15/16	1 1/8 x 15/16	.050	5/8 x 4	1 1/8
349	**2**	1 1/2 x 3/4	3/4	15/16 x 3/4	.050	5/8 x 4	3/4
	2 1/4	1 11/16 x 7/8	7/8	1 1/8 x 15/16	.050	5/8 x 4	1
930	2 3/4	3 1/8 x 1 1/8	1 1/8	1 7/8 x 9/16	.055	3/4 x 6	1 3/4

One dozen in a box with wood screws.



Three-quarters full size

345 Wrought Steel



Three-quarters full size

344 Wrought Steel

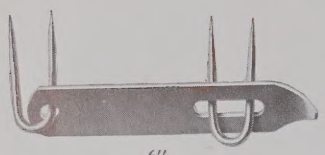
Length of Strap (Inches)	Length of Joint (Inches)	Pad (Inches)	Staple Plate (Inches)	Gauge of Metal	Quantity and Size of Wood Screws		Average Net Weight Per Dozen Pairs (Lbs.)	Average Net Weight Per Dozen (Lbs.)
					344	345	344	345
1 5/8	1	1 3/4 x 7/8	15/16 x 3/4	.050	4–5/8 x 5	2–5/8 x 5 4–5/8 x 4	1 1/4	7/8

344—one dozen pairs in a box; 345—one dozen in a box; with wood screws.

Finishes described on page 25

Specify Class Number, Finish and (Size on 349)

Hasps and Staples

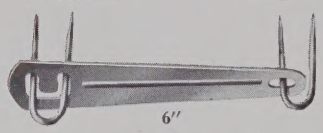


980 Wrought Steel

Size, Length (Inches)		Gauge of Metal	Average Net Weight Per Dozen (Lbs.)
Strap	Staples		
6	2¼	.107	2⅝
8	2½	.107	3½

One dozen in a box.

Automatic Locking

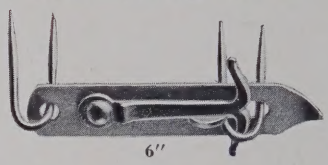


981 Wrought Steel

Size, Length (Inches)		Gauge of Metal	Average Net Weight Per Dozen (Lbs.)
Strap	Staples		
6	2½	.084	2⅜
8	2½	.092	4

One dozen in a box.

With Locking Device



982 Wrought Steel

Size, Length (Inches)		Gauge of Metal	Average Net Weight Per Dozen (Lbs.)
Strap	Staples		
5	2	.084	2⅛
6	2¼	.107	3⅛
7	2½	.107	3¾
8	2½	.107	4
10	2½	.137	7½

One dozen in a box.

987 Wrought Steel

Length (Inches)		Gauge of Metal	Average Net Weight Per Dozen (Lbs.)
Strap	Staples		
8	3	.250	7¾

One dozen in a box.

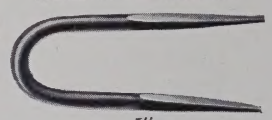
2¾″ x 2 1/16″

913 Wrought Steel

For Hasps Size (Inches)	Plate (Inches)	Projection of Staples (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
3	1½ x 1⅛	¾	.089	¾ x 6	¾
4½	1½ x 1⅛	¾	.089	¾ x 6	¾
6	2 x 1¼	¾	.104	1 x 9	1⅛
8	2 1/16 x 1½	¾	.123	1 x 10	1½
10	2¾ x 2 1/16	15/16	.150	1¼ x 10	3½
12	2¾ x 2 1/16	15/16	.150	1¼ x 12	3½

Two dozen in a box without screws.

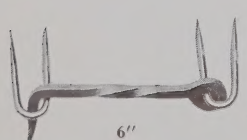
Diamond Points



976 Wrought Steel

Size, Length of Staple (Inches)	Gauge of Wire	Average Net Weight Per Gross (Lbs.)
1	.120	¾
1¼	.120	1⅛
1½	.135	1½
1¾	.135	1¾
2	.146	2½
2½	.180	4⅜
3	.192	6¼
3½	.207	8⅝
4	.207	10¼
5	.225	14⅜

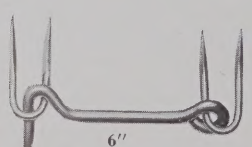
2½″ and smaller one gross in a box; larger sizes one-half gross.



972 Wrought Steel

Size, Length (Inches)		Hook Wire (Inches)	Average Net Weight Per Gross (Lbs.)
Hooks	Staples		
4	2	7/32	16½
5	2¼	¼	25
6	2½	¼	29½

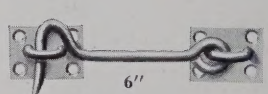
One-quarter gross in a box.



974 Wrought Steel

Size, Length (Inches)		Hook Wire (Inches)	Average Net Weight Per Gross (Lbs.)
Hooks	Staples		
4	2¼	¼	20
5	2½	5/16	33
6	2½	5/16	35½

One-quarter gross in a box.



975 Wrought Steel

Size, Length of Hook (Inches)	Staples (Inches)	Hook Wire (Inches)	Size of Wood Screws	Average Net Weight Per Gross (Lbs.)
4	1½ x 1⅛	¼	⅞ x 7	28
5	1½ x 1⅛	5/16	⅞ x 7	39
6	1½ x 1⅛	5/16	⅞ x 7	42

One-sixth gross in a box without screws.

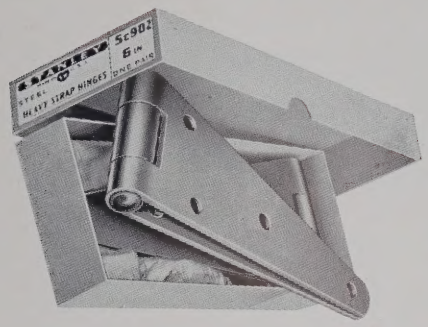
Illustrations one-quarter full size

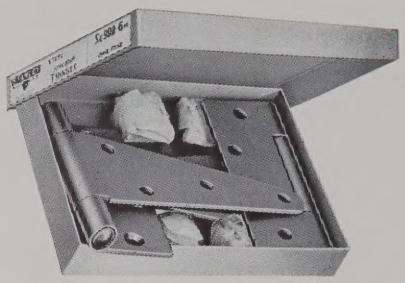
Furnished in Plain Steel (PS) or Galvanized (R) finish. 976 also Japanned

Specify Class Number, Finish and Size

Strap and T-Hinges

"Red-Tipped"





One Pair in a Box with Screws

Stanley Strap and T-Hinges are known by their "red tips," a guarantee of quality and workmanship. Hinges designated by the letters "Sc" prefixed to the class number are packed one pair in a box with correct quantity and size of wood screws. Each box has been designed to provide a strong, durable container which will arrive in the customer's hands in perfect condition. Hinges are made full gauge, with close-fitting joints and accurate countersinking.

The screws for the various hinges have been carefully selected as to size and length so as to be best adapted to each particular style and size of hinge. They are wrapped separately in paper.

Time is saved for both the merchant and the customer. The customer is assured of receiving the correct quantity and size of screws when the hinges are purchased, and the stock is kept clean and neat.

Sc900 furnished in **Wrought Brass** under **Sc1850, 3″, 4″ and 5″.**
Sc904 furnished in **Wrought Brass** under **Sc1854, 3″, 4″ and 5″.**

Wrought Steel

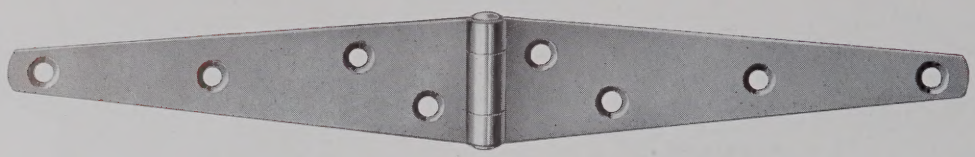
Plain Steel **Japanned** **Galvanized**

			3″	4″	5″	6″	8″	10″	12″
Sc900 . . . Plain Steel **Sc900J** . . Japanned **Sc1300** . . . Galvanized **Sc1300¼** . . Galvanized with Brass Pin	Average Net Weight per 100 Pairs	(Lbs.)	23	38	58	86	142	207	360
	Pairs in Case (Carton)		100	100	100	50	50	Packed as ordered	Packed as ordered
	Case Weight	(Lbs.)	24	39	60	44	73		
Sc902 . . . Plain Steel **Sc902J** . . Japanned **Sc1302** . . . Galvanized **Sc1302¼** . . Galvanized with Brass Pin	Average Net Weight per 100 Pairs	(Lbs.)	. . .	58	95	172	312	480	720
	Pairs in Case (Carton)		. . .	100	50	25	20	10	10
	Case Weight	(Lbs.)	. . .	60	49	44	64	49	73
Sc935 . . . Plain Steel **Sc1305** . . . Galvanized **Sc1305¼** . . Galvanized with Brass Pin	Average Net Weight per 100 Pairs	(Lbs.)	. . .	55	82	151	242	360	572
	Pairs in Case (Carton)		. . .	100	50	25	20	10	10
	Case Weight	(Lbs.)	. . .	57	42	39	50	37	59
Sc904 . . . Plain Steel **Sc904J** . . Japanned **Sc1303** . . . Galvanized **Sc1303¼** . . Galvanized with Brass Pin	Average Net Weight per 100 Pairs	(Lbs.)	28	36	51	64	95	140	203
	Pairs in Case (Carton)		100	100	100	100	50	Packed as ordered	Packed as ordered
	Case Weight	(Lbs.)	29	37	53	66	49		
Sc906 . . . Plain Steel **Sc906J** . . Japanned **Sc1304** . . . Galvanized **Sc1304¼** . . Galvanized with Brass Pin	Average Net Weight per 100 Pairs	(Lbs.)	. . .	47	75	87	115	196	290
	Pairs in Case (Carton)		. . .	100	100	50	50	Packed as ordered	Packed as ordered
	Case Weight	(Lbs.)	. . .	48	75	45	59		
Sc908 . . . Plain Steel **Sc908J** . . Japanned **Sc1306** . . . Galvanized **Sc1306¼** . . Galvanized with Brass Pin	Average Net Weight per 100 Pairs	(Lbs.)	. . .	74	129	198	343	525	705
	Pairs in Case (Carton)		. . .	100	50	25	20	10	10
	Case Weight	(Lbs.)	. . .	76	66	51	70	54	72
Sc937 . . . Plain Steel **Sc1307** . . . Galvanized **Sc1307¼** . . Galvanized with Brass Pin	Average Net Weight per 100 Pairs	(Lbs.)	. . .	63	105	167	268	405	485
	Pairs in Case (Carton)		. . .	100	50	25	20	10	10
	Case Weight	(Lbs.)	. . .	65	54	43	55	42	50

Specify Class Number and Size

Light Strap Hinges

Fast Pin—"Red-Tipped"



5″ One-half full size

Wrought Steel

Without Screws

900 Plain Steel **1300** Galvanized **1300¼** Galvanized with Brass Pin

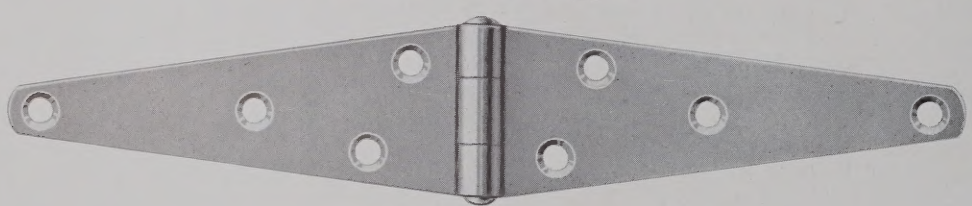
Stanley Strap Hinges are known by their "red tips," a guarantee of quality and workmanship. Made full gauge, with close-fitting joints and accurate countersinking.
Furnished in **Wrought Brass** under **Sc1850, 3″, 4″ and 5″,** one pair in a box with wood screws.

Size, Length of Each Leaf (Inches)	Length of Joint (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
2	1	6– 5/8 x 5	1 3/8	25	35
3	1 3/32	6– 3/4 x 6	2 3/8	25	60
4	1 3/16	6– 3/4 x 7	4	20	80
5	1 11/32	8–1 x 8	6	10	61
6	1 9/16	8–1 x 9	9	6	55
8	1 7/8	8–1 x 10	15	3	47
10	2 3/32	8–1¼ x 10	22	3	70
12	2 3/4	8–1¼ x 12	38	2	78

4″ and smaller one dozen pairs in a box; 5″, 6″ and 8″ one-half dozen pairs; 10″ and 12″ one-quarter dozen pairs; without screws.

Heavy Strap Hinges

Fast Pin—"Red-Tipped"



5″ One-half full size

Wrought Steel

Without Screws

902 Plain Steel **1302** Galvanized **1302¼** Galvanized with Brass Pin

Stanley Strap Hinges are known by their "red tips," a guarantee of quality and workmanship. Made full gauge, with close-fitting joints and accurate countersinking.

Size, Length of Each Leaf (Inches)	Length of Joint (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
4	1 9/16	6–1 x 9	6	10	61
5	1 3/4	8–1 x 10	9½	5	51
6	2 5/8	8–1¼ x 11	19	4	76
8	3 3/16	8–1¼ x 12	32 3/4	2	70
10	3 11/16	8–1½ x 14	52¼	½	27
12	4 9/16	10–1½ x 16	81½	½	42
14	4 3/4	10–1½ x 16	86½	....	..

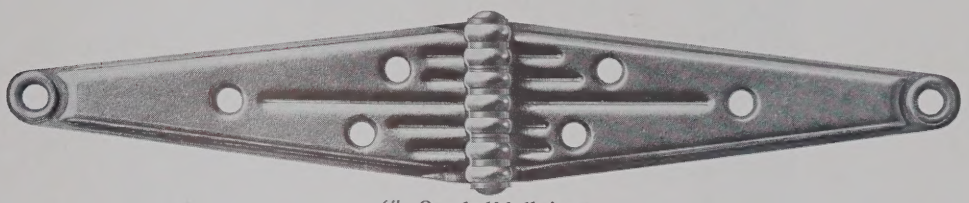
4″ and 5″ one-half dozen pairs in a box; 6″ and 8″ one-quarter dozen pairs; 10″ and 12″ one-half dozen pairs in a carton; 14″ one-twelfth dozen pairs wired, not boxed; without screws.

Specify Class Number and Size

For one pair in a box with screws, see page 101

Corrugated Strap Hinges

Fast Pin—"Red-Tipped"



6″ One-half full size

Wrought Steel

Without Screws

935 Plain Steel **1305** Galvanized **1305¼** Galvanized with Brass Pin

Stanley Strap Hinges are known by their "red tips," a guarantee of quality and workmanship. The corrugations greatly strengthen the joints and leaves and prevent binding on the pin. Made full gauge, with close-fitting joints and accurate countersinking.

Size, Length of Each Leaf (Inches)	Length of Joint (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
4	1 9/16	6–1 x 9	5¼	10	55
5	1 13/16	8–1 x 10	8¼	5	44
6	2 ½	8–1¼ x 11	15½	4	65
8	3	8–1¼ x 12	25½	2	54
10	3 ⅝	8–1½ x 14	39	1	41
12	4	10–1½ x 16	61	1	65

4″ and 5″ one-half dozen pairs in a box; larger sizes one-quarter dozen pairs; without screws.

Corrugated T-Hinges

Fast Pin—"Red-Tipped"

6″ One-half full size

Wrought Steel

Without Screws

937 Plain Steel **1307** Galvanized **1307¼** Galvanized with Brass Pin

Stanley T-Hinges are known by their "red tips," a guarantee of quality and workmanship. The corrugations greatly strengthen the joints and leaves and prevent binding on the pin. Made full gauge, with close-fitting joints and accurate countersinking.

Size, Length of Strap (Inches)	Length of Joint (Inches)	Width of Pad (Inches)	Width of Strap at Joint (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
4	3½	1	1⅝	6–1 x 10	6	10	63
5	4	1½	1¾	8–1 x 10	10½	5	55
6	4½	1¾	2¼	8–1¼ x 11	17½	4	73
8	5½	2	2¾	8–1¼ x 12	29	2	60
10	7	2¼	3⅛	9–1½ x 14	42	1	44
12	7	2⅜	4	10–1½ x 16	50	1	53

4″ and 5″ one-half dozen pairs in a box; larger sizes one-quarter dozen pairs; without screws.

Specify Class Number and Size

For one pair in a box with screws, see page 101

Light T-Hinges

Fast Pin—"Red-Tipped"

6″ One-half full size

Wrought Steel

Without Screws

904 Plain Steel **1303** Galvanized **1303¼** Galvanized with Brass Pin

Stanley T-Hinges are known by their "red tips," a guarantee of quality and workmanship. Made full gauge, with close-fitting joints and accurate countersinking.
Furnished in **Wrought Brass** under **Sc1854, 3″, 4″ and 5″,** one pair in a box with wood screws.

Size, Length of Strap (Inches)	Length of Joint (Inches)	Width of Pad (Inches)	Width of Strap at Joint (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
2	2	½	⅞	6– ⅝ x 5	1½	25	39
3	2⅜	¾	1	6– ¾ x 6	2¾	25	68
4	2⅝	¾	1 1/16	6– ¾ x 7	3½	15	53
5	3	⅞	1 3/16	7–1 x 8	4⅞	10	50
6	3¼	⅞	1 ¼	7–1 x 8	6¼	10	65
8	4	1	1 ½	7–1 x 9	9⅜	5	49
10	4½	1¼	1 ⅝	8–1¼ x 10	14	3	43
12	4¾	1½	2	8–1¼ x 11	20½	2	45

4″ and smaller one dozen pairs in a box; 5″, 6″ and 8″ one-half dozen pairs; 10″ and 12″ one-quarter dozen pairs; without screws.

Heavy T-Hinges

Fast Pin—"Red-Tipped"

6″ One-half full size

Wrought Steel

Without Screws

906 Plain Steel **1304** Galvanized **1304¼** Galvanized with Brass Pin

Stanley T-Hinges are known by their "red tips," a guarantee of quality and workmanship. Made full gauge, with close-fitting joints and accurate countersinking.

Size, Length of Strap (Inches)	Length of Joint (Inches)	Width of Pad (Inches)	Width of Strap at Joint (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
4	2⅞	⅞	1 5/16	6–1 x 8	4½	15	70
5	3¼	1⅛	1 7/16	7–1 x 8	7⅝	10	77
6	3½	1 3/16	1 9/16	7–1 x 9	9	6	55
8	3⅞	1⅜	1 11/16	7–1 x 10	12	5	61
10	4½	1½	1 13/16	8–1¼ x 11	20	3	59
12	5½	2	2 ¼	9–1¼ x 12	33	2	65

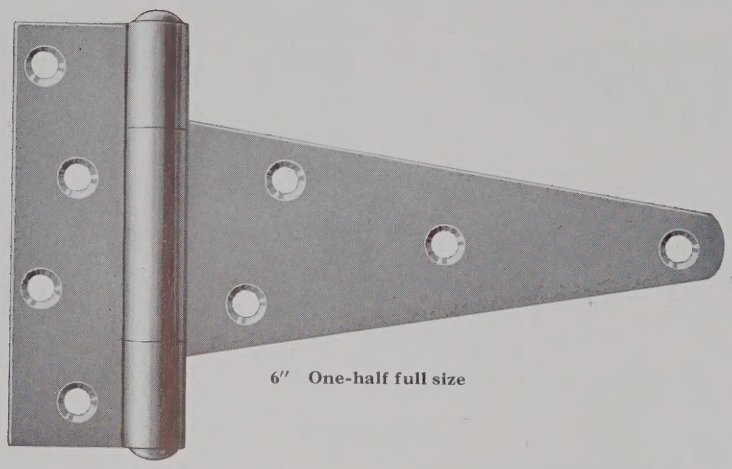
8″ and smaller one-half dozen pairs in a box; larger sizes one-quarter dozen pairs; without screws.

Specify Class Number and Size

For one pair in a box with screws, see page 101

Extra Heavy T-Hinges

Fast Pin—"Red-Tipped"



6″ One-half full size

Wrought Steel

Without Screws

908 Plain Steel

1306 Galvanized **1306¼** Galvanized with Brass Pin

Stanley T-Hinges are known by their "red tips," a guarantee of quality and workmanship.

Made full gauge, with close-fitting joints and accurate countersinking.

Size, Length of Strap (Inches)	Length of Joint (Inches)	Width of Pad (Inches)	Width of Strap at Joint (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
4	3½	1¼	1⅝	6–1 x 9	7¾	10	78
5	3⅞	1⅝	2⅛	8–1 x 10	13½	5	70
6	4½	1¾	2⅜	8–1¼ x 11	21¼	4	87
8	5½	2⅛	2⅞	9–1½ x 12	37	2	76
10	7	2¼	3½	9–1½ x 14	58	½	30
12	7¾	2¾	4⅛	10–1½ x 16	78	½	40
14	7¾	2¾	4⅛	10–1½ x 16	82	. . .	. .
16	7¾	2¾	4⅜	11–1½ x 16	88	. . . .	. .

4″ and 5″ one-half dozen pairs in a box; 6″ and 8″ one-quarter dozen pairs; 10″ and 12″ one-half dozen pairs in a carton; 14″ and 16″ one-twelfth dozen pairs, wired, not boxed; without screws.

Specify Class Number and Size

For one pair in a box with screws, see page 101

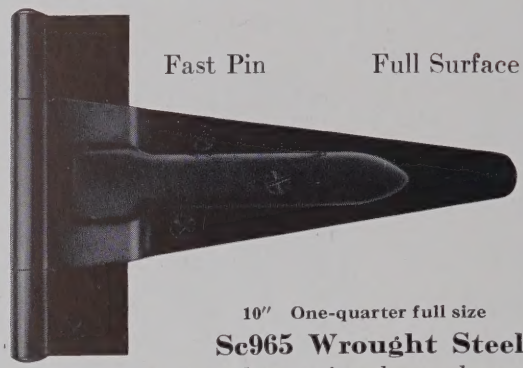
Extra Heavy T-Hinges

For Residential Garage Doors

10″ One-quarter full size

Wrought Steel

Sc963½ Plain Steel
Sc963½R Galvanized
Sc963½RBP Galvanized with Brass Pin
Made 8″, 10″, 12″, 14″ and 16″ in length.



10″ One-quarter full size

Sc965 Wrought Steel

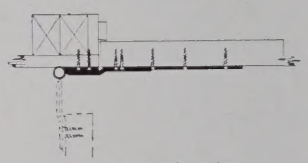
Designed to swing doors clear of opening.
Made 8″, 10″, 12″, 14″ and 16″ in length.

10″ One-quarter full size

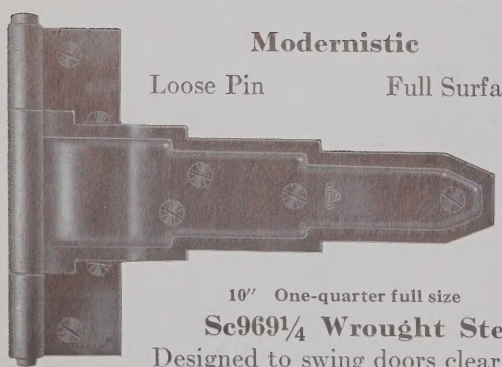
Sc966 Wrought Steel

Applied half surface or full surface.
Made 8″, 10″, 12″, 14″ and 16″ in length.

Sc965-Sc969¼



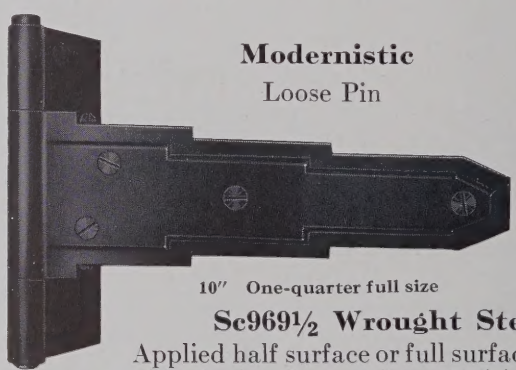
Showing application
Doors must set flush with casing
When door is opened it swings entirely clear of the opening



10″ One-quarter full size

Sc969¼ Wrought Steel

Designed to swing doors clear of opening. Made only 10″ in length.



10″ One-quarter full size

Sc969½ Wrought Steel

Applied half surface or full surface. Furnished with Garage Set 1778½ (see page 218). Made only 10″ in length.

Made of extra heavy wrought steel, toughened and hardened by cold rolling.

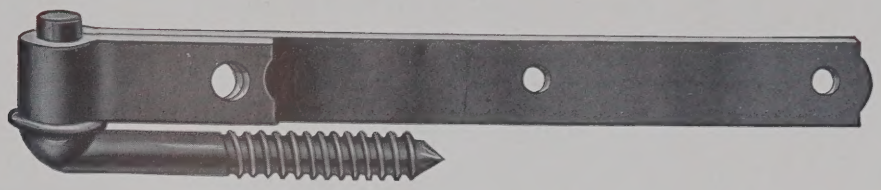
Size, Length of Door Leaf (Inches)	Width of Jamb Leaf (Inches)	Gauge of Metal	Length of Joint (Inches)	Width of Strap at Joint (Inches)	Quantity and Size of Wood Screws (Except Sc965)	Quantity and Size of Wood Screws (Sc965)	Average Net Weight Per Pair (Lbs.)
8	2	.134	5½	2¾	9–1½ x 12	9–1½ x 12	3½
10	2	.139	7	3½	9–1½ x 14	9–1½ x 14	5
12	2	.156	7¾	3⅞	10–1½ x 16	9–1½ x 16	6¾
14	2	.156	7¾	3⅞	10–1½ x 16	9–1½ x 16	7¼
16	2	.156	7¾	3⅞	11–1½ x 16	10–1½ x 16	8

8″ and 10″ one pair in a box; larger sizes one pair wrapped in paper; with wood screws.
Furnished in Plain Steel (PS) or Japanned (J) finish. Sc963½ also Galvanized (R) and (RBP) finish.

Specify Class Number, Finish and Size

Use Three Hinges to a Door

Screw Hook and Strap Hinges



Wrought Steel

Without Screws

951PS Plain Steel **951R** Galvanized

Size, Length of Strap (Inches)	Hook (Inches)	Width of Strap (Inches)	Number and Size of Holes		Average Net Weight per Dozen Pairs (Lbs.)	Size, Length of Strap (Inches)	Hook (Inches)	Width of Strap (Inches)	Number and Size of Holes		Average Net Weight per Dozen Pairs (Lbs.)
6	1/2 x 4	1 1/4	1–11/32	1–15/32	22	**18**	3/4 x 6	1 3/4	3–13/32	1–9/16	95
8	1/2 x 4	1 1/4	2–11/32	1–15/32	25	**20**	3/4 x 6	1 3/4	3–13/32	1–9/16	100
10	5/8 x 5	1 1/4	2–11/32	1–15/32	42	**22**	7/8 x 7	2	3–13/32	1–9/16	132
12	5/8 x 5	1 1/4	2–11/32	1–15/32	50	**24**	7/8 x 7	2	3–13/32	1–9/16	138
14	3/4 x 6	1 1/2	2–13/32	1– 9/16	72	**30**	7/8 x 7	2	4–13/32	1–9/16	159
16	3/4 x 6	1 1/2	3–13/32	1– 9/16	76	**36**	7/8 x 7	2	4–13/32	1–9/16	180

Wired one pair in a bundle.

Screw Hooks

Wrought Steel

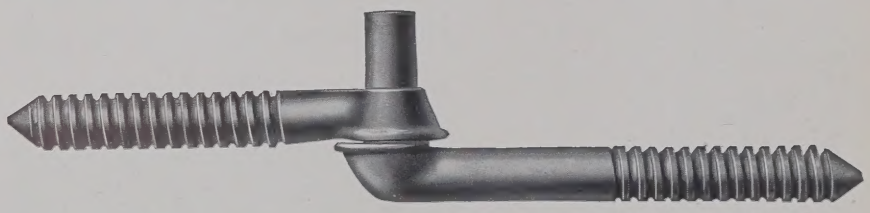
1665 Plain Steel

Hooks are sharp pointed, made with rolled threads.

Size (Inches)	For Hinges (Inches)	Average Net Weight per Dozen (Lbs.)
1/2 x **4**	6, 8	3 3/4
5/8 x **5**	10, 12	7 1/2
3/4 x **6**	14, 20	13 1/4
7/8 x **7**	22, 36	21 1/4

Packed bulk.

Screw Hook and Eye Hinges



Wrought Steel

953 Plain Steel

Hooks are sharply pointed, made with rolled threads.

The eye fits snugly over pin, insuring against door or gate sagging.

One pair consists of four pieces.

Size of Hook (Inches)	Eye (Inches)	Average Net Weight per Dozen Pairs (Lbs.)
1/2 x **4**	1/2 x 4	13
5/8 x **5**	5/8 x 5	24
3/4 x **6**	3/4 x 6	41

Wired one pair in a bundle.

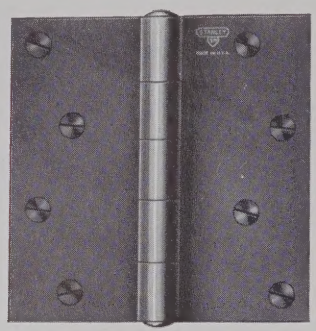
Specify Class Number and Size

Full Surface Hinges

For Folding Doors of Garages

Five Knuckles

Fast Pin



4½″ x 4½″ One-third full size

Not swaged. For full surface application

732 Wrought Steel

For folding doors and other doors where a full surface hinge is desired.

Made of wrought steel, toughened and hardened by cold rolling.

Not Swaged

Size, Open (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Pair (Lbs.)
4 x 4	.130	1 x 10	1⅝
4 x 6	.130	1¼ x 10	3⅛
4½ x 4½	.134	1¼ x 10	2
4½ x 9	.134	1¼ x 10	3⅞

One pair in a box with wood screws.

Furnished in Japanned finish.

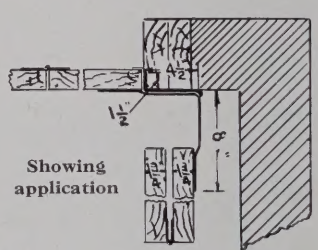
Offset Jamb Hinge

For Folding Doors of Garages

Five Knuckles

Fast Pin

One-quarter full size



Showing application

737 Wrought Steel

For folding doors.

Made of wrought steel, toughened and hardened by cold rolling.

Allows two hinged doors (each 1¾″ in thickness) to clear the opening when standing at an angle of 90°. The jamb angle leaf is applied to the surface of the jamb and rabbet. Screw holes in the door leaf are made to take wood screws or carriage bolts.

Length of Door Leaf (Inches)	Gauge of Metal	Length of Joint (Inches)	Width of Jamb Leaf (Surface) (Inches)	Width of Rabbet Leaf (Angle) (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Pair (Lbs.)
8	.130	4	3⅝	1½	12–1¼ x 12	4⅜

One pair in a box with wood screws.

Furnished in Japanned finish.

Carriage bolts for door leaf furnished on order; when desired, state thickness of door.

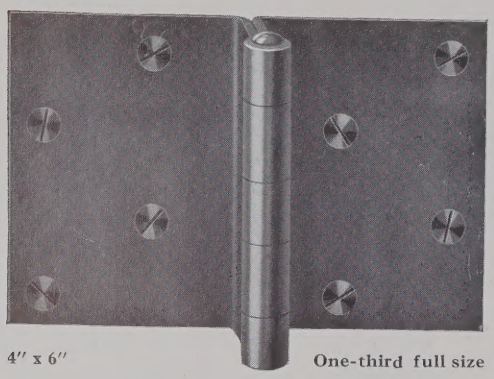
Specify Class Number and (Size on 732)

Use Three Hinges to a Door

Full Surface Offset Hinges

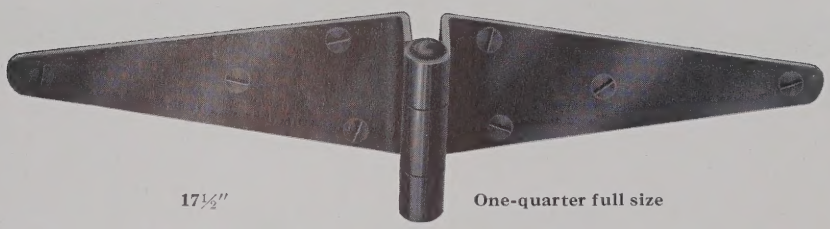
Fast Pin

For Folding Doors of Garages



4″ x 6″ One-third full size

734 Wrought Steel



17½″ One-quarter full size

902½ Wrought Steel

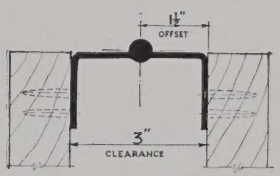
For folding doors. The offset allows clearance for other hardware that may project from the doors.

Made of wrought steel, toughened and hardened by cold rolling.

Furnished on order with ¾″ offset allowing 1½″ clearance between doors when folded. Offset is measured from back of leaf to center of pin.

Screw holes are made to take wood screws or carriage bolts.

734—4″ x 4″ made with 1¾″ offset allowing 3½″ clearance between doors when folded. Especially suitable for folding doors where "Kee Bolt" is used.



1½″ offset provides 3″ clearance between doors in open position

734

Size Open (Inches)	Offset (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Pair (Lbs.)
4 x 3½	1	.130	1¼ x 10	2
4 x 4	1¾	.130	1¼ x 10	2¼
4 x 6	1½	.130	1¼ x 10	2¾
4½ x 9	1½	.134	1¼ x 10	4

One pair in a box with wood screws.

902½

Size, Open (Inches)	Offset (Inches)	Gauge of Metal	Length of Joint (Inches)	Size of Wood Screws	Average Net Weight Per Pair (Lbs.)
14	1½	.125	3 3/16	1¼ x 12	3
17½	1½	.139	3 21/32	1¼ x 14	4½

One pair in a box with wood screws.

Furnished in Japanned finish.

Carriage bolts furnished on order; when desired, state thickness of door.

Specify Class Number and Size

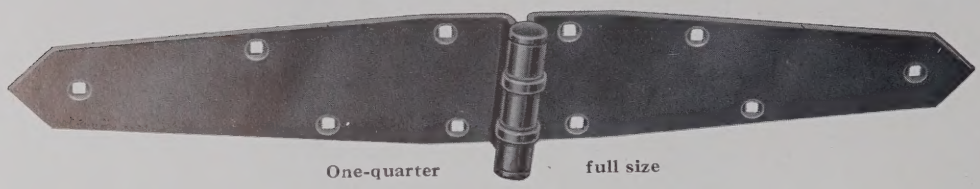
Use Three Hinges to a Door

Extra Heavy Full Surface Ball Bearing Hinges

Fast Pin

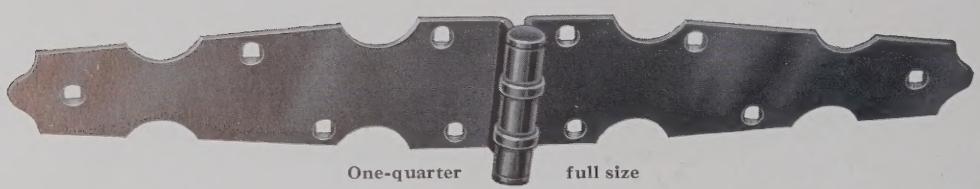
For Folding Doors of Garages and Industrial Buildings

Wrought Steel



One-quarter full size

BB1452½ With 1½″ Offset
BB1452 Without Offset



One-quarter full size

BB1453½ With 1½″ Offset
BB1453 Without Offset

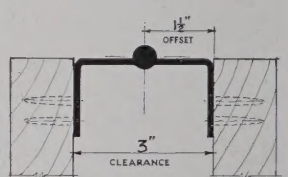
For folding doors. The offset allows clearance for other hardware that may project from the doors.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two Stanley Ball Bearings, which prevent wear at the joints, and insure that doors will operate easily.

Offset is measured from back of leaf to center of pin.

Screw holes are made to take wood screws or carriage bolts.



1½″ offset provides 3″ clearance between doors in open position

Size, Open (Inches)	Gauge of Metal	Length of Joint (Inches)	Size of Wood Screws	Average Net Weight per Pair (Lbs.)
20	.162	3	1½ x 14	5½

One pair in a package with wood screws. Furnished in Japanned (J), Dead Black (J1) or (KJ1) finish.

Carriage bolts furnished on order; when desired, state thickness of door.

Specify Class Number and Finish

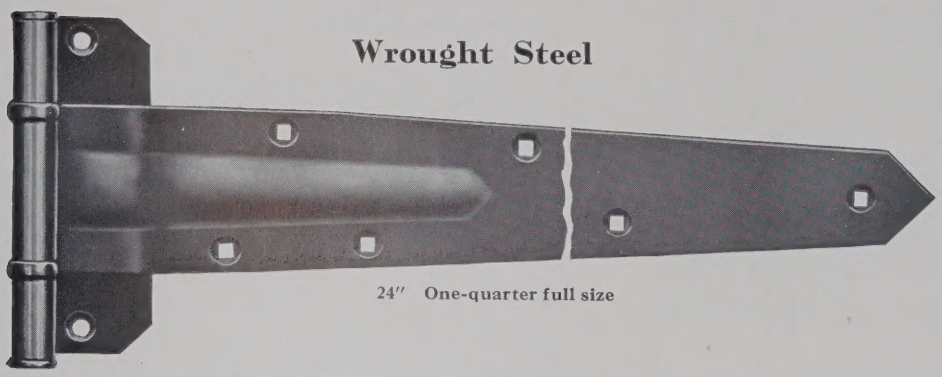
Use Three Hinges to a Door

Extra Heavy Full Surface Ball Bearing Hinges

Fast Pin

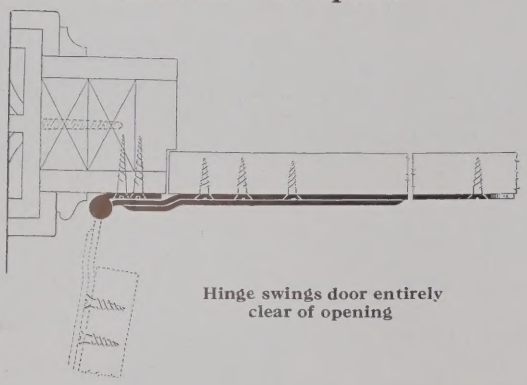
For Garages and Industrial Buildings

Wrought Steel



24″ One-quarter full size

BB1456 Non-Template
BBTM1456 Template



Hinge swings door entirely clear of opening

For doors of garages and industrial buildings. Doors swing entirely clear of the opening. Doors must be set flush with the casing.

Made of wrought steel, toughened and hardened by cold rolling.

Equipped with two Stanley Ball Bearings, which prevent the hinges from wearing at the joints and insure that doors will operate easily.

Screw holes in the door leaf are made to take wood screws or carriage bolts.

Size, Length of Door Leaf (Inches)	For Minimum Top Rail (Inches)	Gauge of Metal	Length of Joint (Inches)	Width of Jamb Leaf (Inches)	Width of Door Leaf at Joint (Inches)	Quantity and Size of Wood Screws	Quantity and Size of Machine Screws — Jamb Leaf BBTM1456	Average Net Weight Per Pair (Lbs.)
12	5	.162	7	$2^{21}/_{32}$	3	10–1½ x 14	5–½ x ¼-20	6½
18	5	.162	7	$2^{21}/_{32}$	3	11–1½ x 14	5–½ x ¼-20	8
24	5	.162	7	$2^{21}/_{32}$	3	12–1½ x 14	6–½ x ¼-20	9
36	6	.197	8	$2\ 9/16$	4	13–2 x 20	6–⅝ x 5/16-18	18½

12″ and 18″ one pair in a box; larger sizes one pair in a package; with screws.

Carriage bolts furnished for door leaf on order; when desired, state thickness of door.

Furnished in Japanned (J), Dead Black (J1) or (KJ1) finish.

Specify Class Number, Finish and Size

Use Three Hinges to a Door

Triple Weight Full Surface Hinges

Loose Pin

For Garages and Industrial Buildings

Wrought Steel

36″ x 2½″ x ⅜″ One-quarter full size

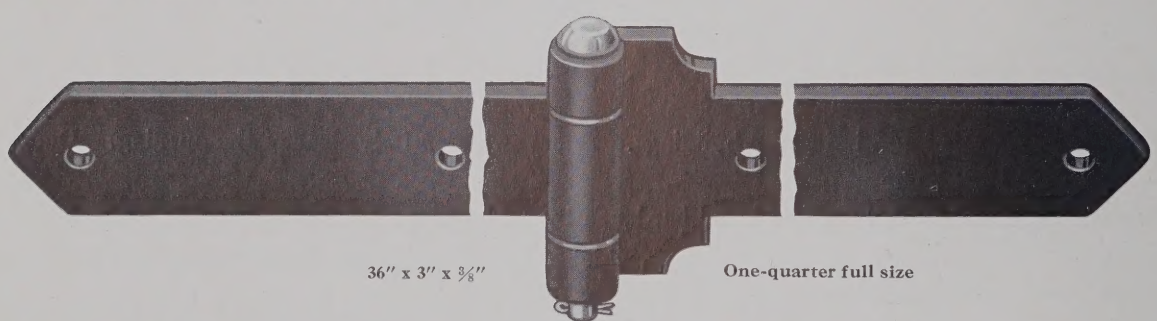
BB957 Ball Bearing
957 Hardened Steel Bearing

For very heavy doors of garages and industrial buildings. Doors swing entirely clear of the opening. Doors must set flush with the casing.

Made of triple weight wrought steel, ⅜″ x 2½″, ⅜″ x 3″ and ½″ x 3″. Length according to requirements. Pins are (Cadmium plated) ¾″ in diameter for hinges ⅜″ in thickness and 1″ in diameter for hinges ½″ in thickness. Bolt holes are made to match those in hinge shown below.

Size, Length of Door Leaf (Inches)	Approximate Weight Per Pair (Lbs.)		
	2½″ x ⅜″	3″ x ⅜″	3″ x ½″
Up to 36	34½	39½	48½
37 to 48	42½	47½	56½
49 to 60	50½	55½	64½
61 to 72	58½	63½	72½

Packed as ordered without screws or bolts. Furnished in Japanned finish.



36″ x 3″ x ⅜″ One-quarter full size

BB959 Ball Bearing **959 Hardened Steel Bearing**

For very heavy folding doors of garages and industrial buildings.

Made of triple weight wrought steel, ⅜″ x 2″, ⅜″ x 2½″, ⅜″ x 3″ and ½″ x 3″. Length according to requirements. Pins are (Cadmium plated) ¾″ in diameter for hinges ⅜″ in thickness and 1″ in diameter for hinges ½″ in thickness. Bolt holes are made to match those in hinge shown above.

Size, Length Each Leaf (Inches)	Approximate Weight Per Pair (Lbs.)			
	2″ x ⅜″	2½″ x ⅜″	3″ x ⅜″	3″ x ½″
Up to 36	35	44	53	71
37 to 48	45	56	67	89
49 to 60	50	68	82	110
61 to 72	60	80	96	128

Packed as ordered without screws or bolts. Furnished in Japanned finish.

Specify Class Number, Size, Thickness of Metal and Width of Strap

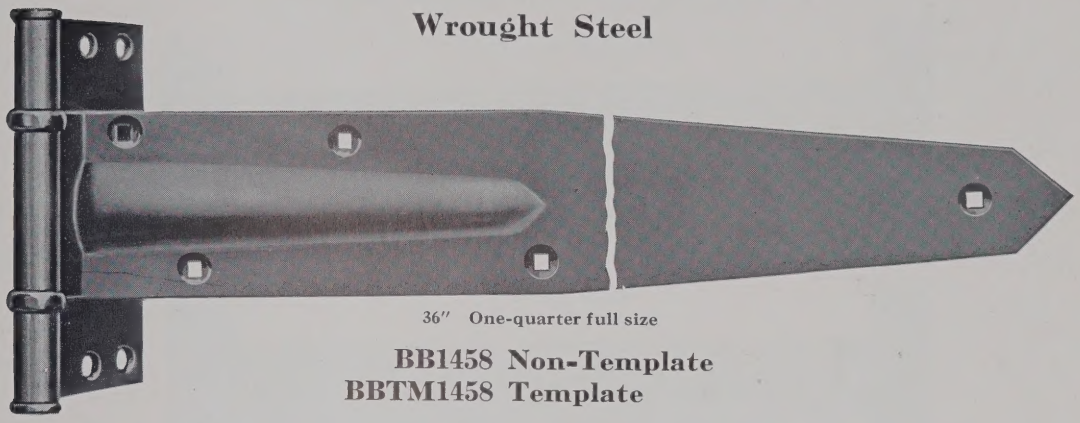
Note—The above hinges are always made to order as required. When ordering, furnish sketch of jamb and door. If desired with bolts, orders should so specify, giving thickness of door.

Extra Heavy Half Surface Ball Bearing Hinges

Fast Pin

For Garages and Industrial Buildings

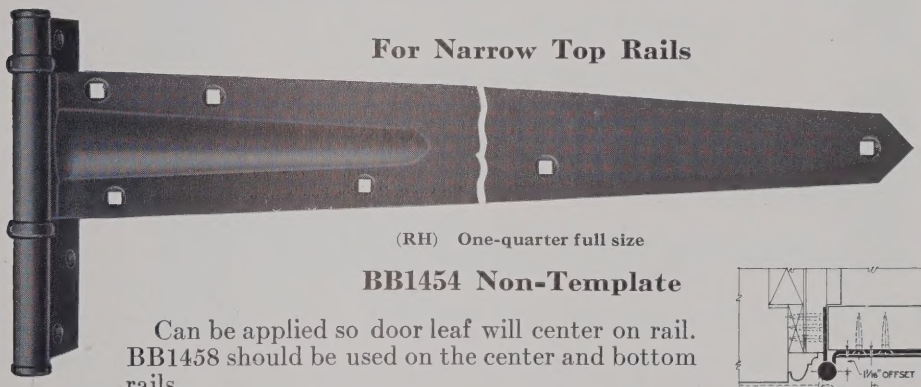
Wrought Steel



36″ One-quarter full size

BB1458 Non-Template
BBTM1458 Template

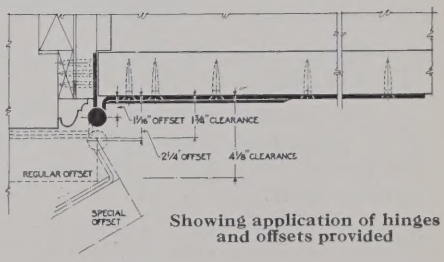
For Narrow Top Rails



(RH) One-quarter full size

BB1454 Non-Template

Can be applied so door leaf will center on rail. BB1458 should be used on the center and bottom rails.



Showing application of hinges and offsets provided

For doors of garages and industrial buildings.

Made of extra heavy wrought steel, toughened and hardened by cold rolling.

Equipped with two Stanley Ball Bearings, which prevent the hinges from wearing at the joints and insure that doors will operate easily.

Screw holes in the door leaf are made to take wood screws or carriage bolts.

BB1458 36″ furnished on order with an offset of 2¼″, giving a maximum throw or clearance of 4⅛″ with jamb leaf 4½″ wide.

Number	Size, Length of Door Leaf (Inches)	For Minimum Top Rail (Inches)	Gauge of Metal	Length of Joint (Inches)	Width of Jamb Leaf (Inches)	Width of Door Leaf at Joint (Inches)	Offset (Inches)	Throw or Clearance (Inches)	Quantity and Size of Wood Screws	Quantity and Size of Machine Screws — Jamb Leaf BBTM1458	Average Net Weight Per Pair (Lbs.)
BB1454	24	4 1/16	.162	7	2 13/16	3	1 1/16	1 3/4	12–1 1/2x14	.....	6
BB1458	**12**	5	.162	7	2 13/16	3	1 1/16	1 3/4	10–1 1/2x14	5–1/2x1/4-20	6 1/2
	18	5	.162	7	2 13/16	3	1 1/16	1 3/4	11–1 1/2x14	5–1/2x1/4-20	8 1/4
	24	5	.162	7	2 13/16	3	1 1/16	1 3/4	12–1 1/2x14	5–1/2x1/4-20	9 1/4
	***36**	6	.197	8	3 5/16	4	1 1/16	1 3/4	15–2 x20	8–5/8x5/16-18	20

12″ and 18″ one pair in a box; larger sizes one pair in a package (BB1454 one-half right hand); with screws.

* When ordered for doors 1¾″ in thickness, specify jamb leaf for 1¾″ door.

Carriage bolts furnished for door leaf on order; when desired, state thickness of door.

Furnished in Japanned (J), Dead Black (J1) or (KJ1) finish

Specify Class Number, Finish, and Size

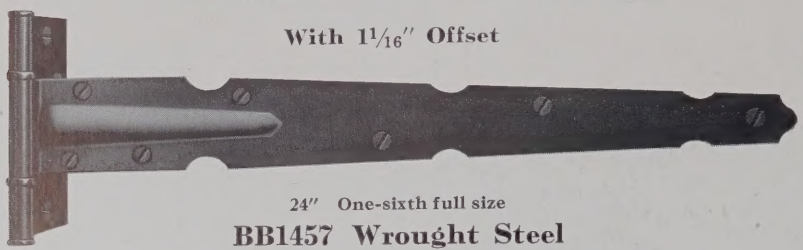
Use Three Hinges to a Door

Extra Heavy Half Surface Ball Bearing Hinges

Fast Pin

For Residential Garage Doors

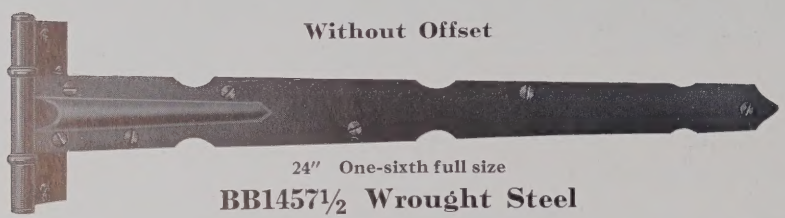
With 1 1/16" Offset



24" One-sixth full size

BB1457 Wrought Steel

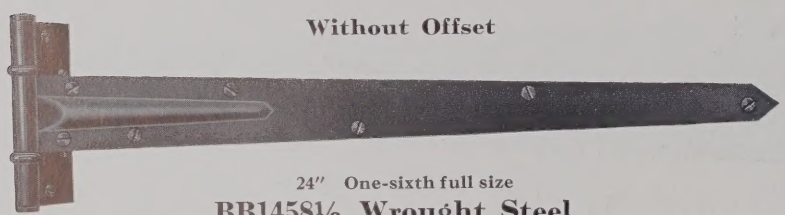
Without Offset



24" One-sixth full size

BB1457½ Wrought Steel

Without Offset



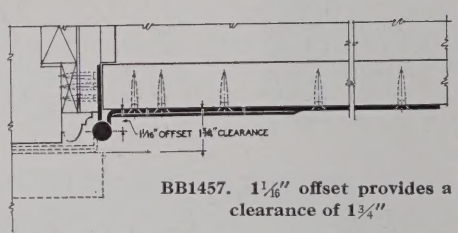
24" One-sixth full size

BB1458½ Wrought Steel

Made of extra heavy wrought steel, toughened and hardened by cold rolling.

Equipped with two Stanley Ball Bearings, which prevent wear at the joints and insure doors will operate easily.

Screw holes in the door leaf are made to take wood screws or carriage bolts.



BB1457. 1 1/16" offset provides a clearance of 1 3/4"

BB1457

Size, Length of Door Leaf (Inches)	For Minimum Top Rail (Inches)	Offset (Inches)	Throw or Clearance (Inches)	Gauge of Metal	Length of Joint (Inches)	Width of Jamb Leaf (Inches)	Width of Door Leaf at Joint (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Pair (Lbs.)
10	5	1 1/16	1 3/4	.162	7	2 13/16	3	10–1½ x 14	6
18	5	1 1/16	1 3/4	.162	7	2 13/16	3	11–1½ x 14	7¾
24	5	1 1/16	1 3/4	.162	7	2 13/16	3	12–1½ x 14	9¼

10" and 18" one pair in a box; 24" one pair in a package; with wood screws.

BB1457½, BB1458½

Size, Length of Door Leaf (Inches)		For Minimum Top Rail (Inches)	Gauge of Metal	Length of Joint (Inches)	Width of Jamb Leaf (Inches)	Width of Door Leaf at Joint (Inches)	Quantity and Size of Wood Screws		Average Net Weight Per Pair (Lbs.)	
BB1457½	BB1458½						BB1457½	BB1458½	BB1457½	BB1458½
10	...	4¼	.162	6	2¼	2½	9–1½x14	.....	5½	...
...	**12**	4¼	.162	6	2¼	2½	.....	10–1½x14	...	5½
18	**18**	4¼	.162	6	2¼	2½	11–1½x14	11–1½x14	6⅜	6½
24	**24**	4¼	.162	6	2¼	2½	12–1½x14	12–1½x14	8	7½
...	**32**	4¼	.162	6	2¼	2½	.....	13–1½x14	...	9

18" and smaller one pair in a box; 24" and 32" one pair in a package; with wood screws.

Carriage bolts furnished for door leaf on order; when desired, state thickness of door.

Furnished in Japanned (J), Dead Black (J1) or (KJ1) finish

Specify Class Number, Finish and Size

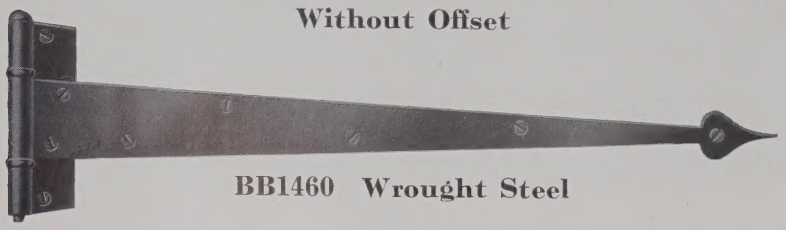
Use Three Hinges to a Door

Extra Heavy Half Surface Ball Bearing Hinges

Loose Pin

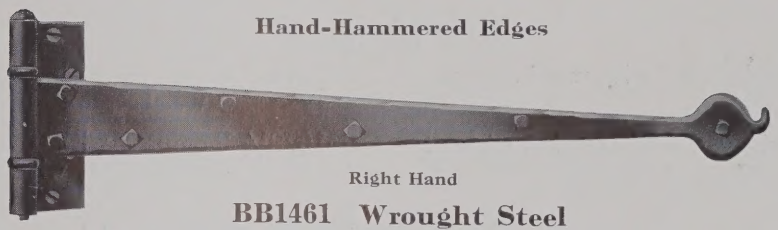
For Residential Garage Doors

Without Offset



BB1460 Wrought Steel

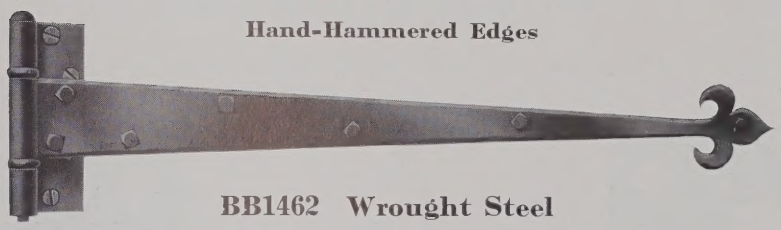
Hand-Hammered Edges



Right Hand

BB1461 Wrought Steel

Hand-Hammered Edges



BB1462 Wrought Steel

Illustrations one-sixth full size of 24″

Made of extra heavy wrought steel, toughened and hardened by cold rolling.

Equipped with two Stanley Non-Detachable Ball Bearings which prevent wear at the joints and insure doors will operate easily. Hinges can be applied either half surface or full surface.

Screw holes in the door leaf are made to take carriage bolts, wood or lag screws.

For latch sets to match, see page 158.

Hinge Straps of the same designs furnished on order.

Size, Length of Door Leaf (Inches)	For Minimum Top Rail (Inches)	Gauge of Metal	Length of Joint (Inches)	Width of Jamb Leaf (Inches)	Width of Door Leaf at Joint (Inches)	Quantity and Size of Wood Screws	Quantity and Size of Lag Screws	Quantity and Size of Wood Screws	Average Net Weight Per Pair (Lbs.)
							Door Leaf	Jamb Leaf	
						BB1460	BB1461 BB1462	BB1461 BB1462	
18	4¼	.162	6	2¼	2½	11–1½ x 14	6–1½ x ¼	5–1½ x 14	5
24	4¼	.162	6	2¼	2½	12–1½ x 14	7–1½ x ¼	5–1½ x 14	6
32	4¼	.162	6	2¼	2½	12–1½ x 14	7–1½ x ¼	5–1½ x 14	7½

18″ one pair in a box; larger sizes one pair in a package; BB1460 with wood screws, BB1461-BB1462 with lag and wood screws.

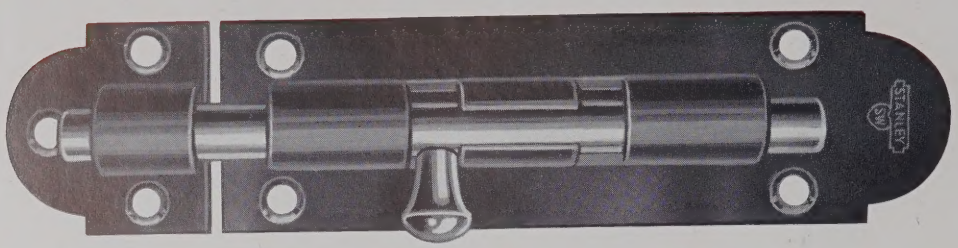
Carriage bolts furnished for door leaf on order; when desired, state thickness of door.

BB1460 furnished in Dead Black (J1) or (KJ1) finish
BB1461-BB1462 in Dead Black (KJ1) finish

Specify Class Number, (Finish on* BB1460*) and Size

Use Three Hinges to a Door

Barrel Bolts



4″ Full size

Wrought Steel

406 Planished and Plated with wood screws

1078 Japanned with Brass Plated Bolt without screws

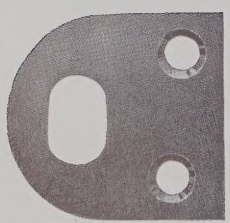
Sc1078 Japanned with Brass Plated Bolt with wood screws

Sc1078¼ Japanned with Brass Plated Bolt and Strike 1134 with wood screws

Wrought Brass

1077 Bright finish with wood screws

Strikes



1134

Furnished separately for Bolts 1077 and 1078.

1134 No. 1 For sizes 2″ and 2½″
1134 No. 2 For sizes 3″ and 4″
1134 No. 3 For sizes 5″ and 6″

1136

Furnished on order with Bolts 1077 and 1078 or separately.

1136 No. 1 For sizes 2″ and 2½″
1136 No. 2 For sizes 3″ and 4″
1136 No. 3 For sizes 5″ and 6″

When ordering strikes specify class number and size, also class number of bolt with which to be used.

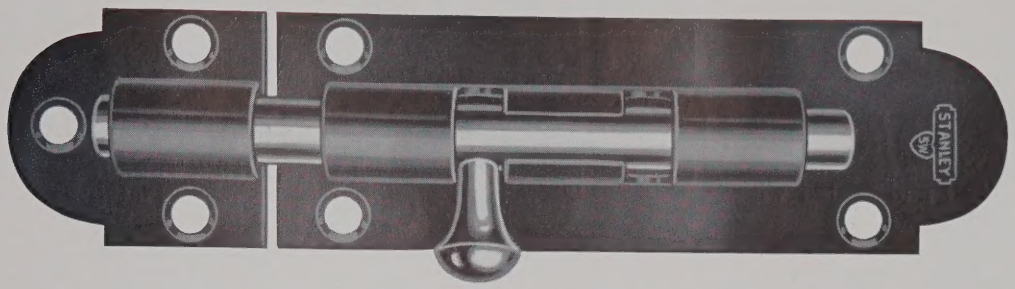
Size, Length of Bolt (Inches)	Plate (Inches)	Gauge of Metal	Diameter of Bolt (Inches)	Strikes (Inches)			Quantity and Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)			Dozen in a Case	Average Case Weight (Lbs.)
				Surface	1134	1136		1078	406 Sc1078 Sc1078¼	1077	1078	
2	2⅛ x 1	.058	¼	1 x ⅞	1⅛ x 1	1 ¼ x ⅝	6–⅝ x 4	1¼	...	...	25	32
2½	2½ x 1	.058	¼	1 x ⅞	1⅛ x 1	1 ¼ x ⅝	6–⅝ x 4	1¾	1⅝	1¾	25	36
3	3 x 1⅛	.058	5/16	1⅛ x 1⅛	1¼ x 1 3/16	1 5/16 x 11/16	7–¾ x 5	2⅛	2⅜	2⅝	25	54
4	4 x 1⅛	.065	5/16	1⅛ x 1⅛	1¼ x 1 3/16	1 5/16 x 11/16	7–¾ x 5	2⅞	3⅛	3⅜	25	73
5	5 x 1 5/16	.072	11/32	1 5/16 x 1⅜	1½ x 1⅜	1 11/16 x ¾	7–¾ x 7	5	5⅛	5⅝	15	77
6	6 x 1 5/16	.072	11/32	1 5/16 x 1⅜	1½ x 1⅜	1 11/16 x ¾	9–¾ x 7	5¾	6⅛	6⅜	10	59

One dozen in a box; 1078 without screws; other numbers with wood screws.

Finishes described on page 25

Specify Class Number (Finish on 406) and Size

Heavy Barrel Bolts



4″ Full size

Wrought Steel

408 Planished and Plated with wood screws

1084 Japanned with Brass Plated Bolt without screws

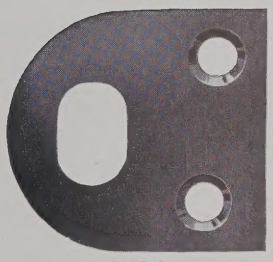
Sc1084 Japanned with Brass Plated Bolt with wood screws

Sc1084¼ Japanned with Brass Plated Bolt and Strike 1134 with wood screws

1335 Galvanized with wood screws

Wrought Brass

1109 Bright finish with wood screws
Made in sizes 3″, 4″, 5″ and 6″

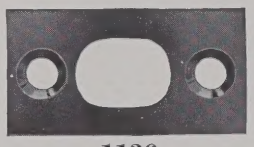


1134

Furnished separately for Bolts 1084 and 1109.

1134 No. 3 For sizes 3″ and 4″
1134 No. 4 For sizes 5″ and 6″
1134 No. 5 For size 8″ for bolt 1084

Strikes



1136

Furnished on order with Bolts 1084 and 1109 or separately.

1136 No. 3 For sizes 3″ and 4″
1136 No. 4 For sizes 5″ and 6″
1136 No. 5 For size 8″ for bolt 1084

When ordering strikes specify class number and size, also class number of bolt with which to be used.

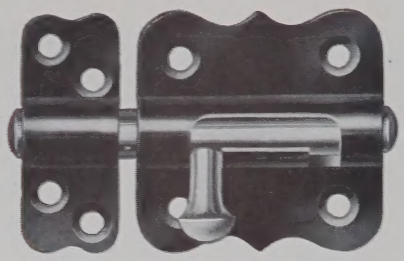
Size, Length of Bolt (Inches)	Plate (Inches)	Gauge of Metal	Diameter of Bolt (Inches)	Strikes (Inches)			Quantity and Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)			Dozen in a Case	Average Case Weight (Lbs.)
				Surface	1134	1136		1084	408 Sc1084 Sc1084¼ 1335	1109	1084	
3	3 1/8 x 1 5/16	.070	25/64	1 5/16 x 1 5/16	1 1/2 x 1 11/32	1 5/16 x 11/16	7– 3/4 x 6	3 3/8	4 1/4	4 1/2	10	35
4	4 1/16 x 1 5/16	.070	25/64	1 5/16 x 1 5/16	1 1/2 x 1 11/32	1 5/16 x 11/16	7– 3/4 x 6	4 1/4	4 7/8	5	10	43
5	4 3/4 x 1 1/2	.077	27/64	1 1/2 x 1 1/2	1 3/4 x 1 5/16	1 11/16 x 3/4	7– 7/8 x 7	6	6 3/4	7	5	31
6	6 x 1 1/2	.077	27/64	1 1/2 x 1 1/2	1 3/4 x 1 5/16	1 11/16 x 3/4	9– 7/8 x 7	7 1/4	7 7/8	8	5	37
8	8 x 1 3/4	.077	37/64	1 3/4 x 2	2 3/8 x 1 3/4	1 15/16 x 13/16	9–1 x 8	15	17	...	3	45

5″ and smaller one dozen in a box; 6″ one-half dozen; 8″ one-quarter dozen; 1084 without screws; other numbers with wood screws.

Finishes described on page 25

Specify Class Number (Finish on 408) and Size

Cellar Window Bolts



3" Two-thirds full size

Wrought Steel

405 Planished and Plated with wood screws

1076 Japanned with Brass Plated Bolt without screws

Wrought Brass

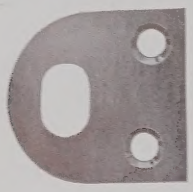
1073 With wood screws

Wrought Steel

Sc1076 Japanned with Brass Plated Bolt with wood screws

Sc1076¼ Japanned with Brass Plated Bolt and Strike 1134 with wood screws

Strikes



1134

Furnished separately for Bolts 1073 and 1076.

1134 No. 1 For size 2" **1134 No. 3** For size 3"
1134 No. 2 For size 2½" **1134 No. 4** For size 3½"

1136

Furnished on order with Bolts 1073 and 1076 or separately.

1136 No. 1 For size 2" **1136 No. 3** For size 3"
1136 No. 2 For size 2½" **1136 No. 4** For size 3½"

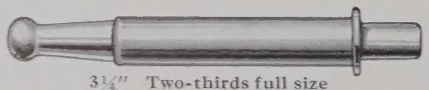
When ordering strikes specify class number and size, also class number of bolt with which to be used.

Size, Length of Bolt (Inches)	Plate (Inches)	Gauge of Metal	Diameter of Bolt (Inches)	Strikes (Inches)			Quantity and Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)			Dozen in a Case	Average Case Weight (Lbs.)
				Surface	1134	1136		1076	405 Sc1076 Sc1076¼	1073	1076	
2	1 5/16 x 1 3/8	.058	19/64	1 3/16 x 7/16	1¼ x 1 3/16	1 ¼ x 5/8	6–¾ x 5	1¼	1⅜	1½	25	31
2½	1 9/16 x 1 ½	.058	11/32	1½ x ½	1¼ x 1 3/16	1 5/16 x 11/16	6–¾ x 6	1¾	2	2¼	25	46
3	1⅞ x 1 13/16	.065	⅜	1⅞ x ¾	1½ x 1⅜	1 11/16 x ¾	8–¾ x 7	2¾	3⅛	3¼	..	..
3½	2⅛ x 2 1/16	.072	7/16	2¼ x ⅞	1¾ x 1 5/16	1 15/16 x 13/16	8–¾ x 7	4¼	4½	4¾	..	..

One dozen in a box; 1076 without screws; other numbers with wood screws. Finishes described on page 25.

Specify Class Number (Finish on 405*) and Size*

Window Spring Bolts



3¼" Two-thirds full size

For windows and for stationary or hinged screens.

Size 2⅝" recommended for screens.

1697 Wrought Steel
1697¼ Wrought Brass

1697. Bolt plungers are steel (cadmium plated), 1697¼ are brass, both with zinc case and brass coil spring.

Size, Length of Bolt (Inches)	Length of Case (Inches)	Throw (Inches)	Average Net Weight Per Gross (Lbs.)	Gross in a Case	Average Case Weight (Lbs.)
2⅝	1½	⅜	3½	5	20
2⅞	1½	½	8	5	43
3¼	1⅞	½	9¼	5	48
3¾	1⅞	½	11¼	5	58

One-half gross in a box.

Specify Class Number and Size

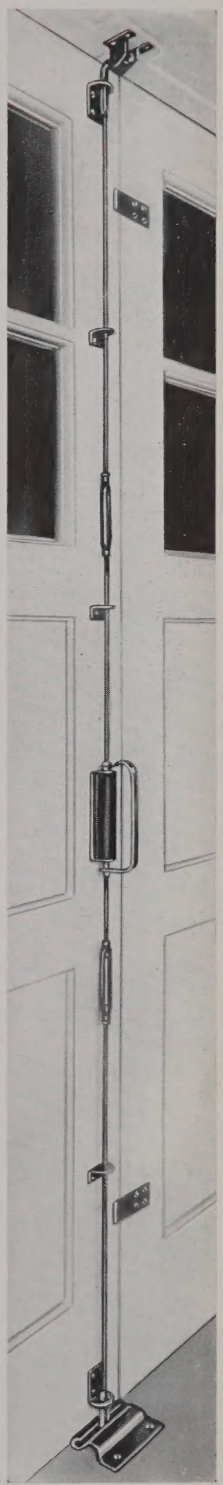
Extra Heavy "Kee Bolt"

Self-Latching

For Garage Doors Opening Out

Wrought Steel

1000 Without cylinder
1005 With cylinder and 2 keys



Applied
Locked position

Operates in a three-fold capacity—a bolt, a latch and a lock.

Made in standard size for doors 7′ 1½″ to 8′ 2″ in height and 1¾″ to 2¼″ in thickness. Handle regularly furnished 42″ from bottom of door.

Furnished on order for doors of any height up to 3″ in thickness.

The inside handle is large and has a comfortable grip. The mechanism is enclosed in a case with no sharp corners to scratch the hands.

The bottom strike is adjustable by means of slotted screw holes, and besides holding the active door in place, acts as a stop for both doors.

Two sturdy plates fastened to the inactive door act as an astragal, locking both doors.

Any standard make of rim cylinder can be used. It is possible to master-key the locks on the house with the "Kee Bolt" so that one key can be used for both.

When desired, handles on page 158 can be substituted for the outside handle.

Note—Furnished on order for doors opening in.

Operation

Applied to the active door and operates on the outside like a thumb latch. A turn of the key locks or unlocks the mechanism, permitting the release of the bolt at top and bottom by simply pressing down on the thumb piece. Operated from the inside by lifting the handle. Locked by key from outside. Always free to operate from the inside.

Outside view

Specifications

Diameter of Rod, ⅜″
Width of Guides, 2″
Bolt Heads (square), ½″
Bottom Strike, 4″ x 4″ (height of groove, ½″)
Top Strike, 2¼″ x 2⅞″
Outside Handle, 9⅜″ overall
Inside Handle, 7 13/16″ overall
Throw, ½″
Projection of Bolt Head, 3¼″

Packed one in a corrugated box with wood and lag screws. Weight complete, 8¼ lbs.

Furnished Cadmium Plated (K), Japanned (KJ) or Dead Black (KJ1) finish

Specify Class Number, Finish, Height and Thickness of Door (on 1005, also make of cylinder)

Extra Heavy Cremone Bolt

For Garages and Industrial Buildings

1052 Wrought Steel

Locked position

1052

Reversible for right or left hand doors opening in or out.

Stock sizes for doors 7′, 7′ 6″ and 8′ in height with handle 42″ from bottom of door. There is an adjustment of 6″ upward at ¼″ intervals. Furnished on order for doors of any height.

Furnished on order with handle outside or with two handles, one inside and one outside. When desired, specify thickness of door.

Specifications

Case	12″ x 3″
Length of Handle (Brass)	7″
Rods Half Oval (Cadmium Plated)	3/16″ x 3/4″
Bolt Heads Half Oval (Cadmium Plated)	3/8″ x 1 1/2″
Top and Bottom Guides	5 1/2″ x 3 3/8″
Center Guides (4)	2 15/16″ x 2 11/16″
Throw	1 1/2″ up and down
Projection	2 1/2″

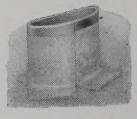
Strikes

No. 1 Flat

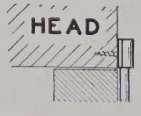
No. 2 Universal

No. 3 Angle

No. 5 Surface



No. 6 Concrete



Regularly packed with strikes 2, 3 and 6. Nos. 1 and 5 on order.

Packed one handle, guides and strikes in a box with wood screws. Rods wrapped separately. Weight complete, 15 pounds.

Furnished in Cadmium Plated (K), Japanned (KJ) or Dead Black (KJ1) finish

Specify Class Number, Finish and Height of Door

When height of door is not specified bolt will be furnished with rods for 8′ door

Extra Heavy Espagnolette Bolts

For Garages and Industrial Buildings

For Doors Opening Out

1053 Wrought Steel
1053½ Wrought Steel

1053. As regularly furnished the bolt is adjustable (at 7/16″ intervals) for doors 7′ 9¾″ to 8′ 2″ in height, with the handle 48″ from bottom of door.

Furnished on order for doors of any height.

Reversible for right or left hand doors, up to 8′ in height, by reversing top and bottom rods. For doors of greater height, specify hand.

The operation of the bolt draws the door into place at top and bottom, even though warped. When bolt is in locked position handle drops to the side.

1053½. As regularly furnished the bolt is for a left hand door and is adjustable (at 7/16″ intervals) for doors 7′ 9″ to 8′ in height, with the handle 48″ from the bottom of door.

Furnished on order for doors of any height.

If to be used on right hand doors, order should so state.

The operation of the bolt draws the door in place at the top, even though warped. The bottom rod drops into a strike. When bolt is in locked position handle drops to the side.

Specifications

Length of Handle, 7″ — Width of Guides, 2⅛″
Diameter of Rod, ⅝″ — Throw of Bottom Rod, 2″

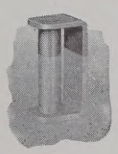
Locked position LH Bolt on right hand door

1053

Strikes For 1053

Top strike

Bottom strike for wood floors
Furnished only when ordered



Bottom strike for concrete floors

Hand of Door and Bolt

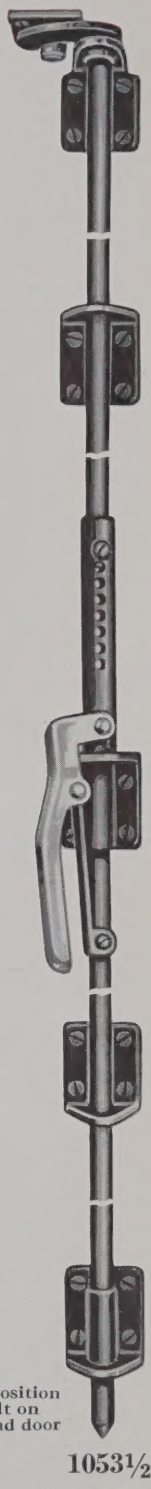
Showing position of RH bolt head for left hand door

Strikes For 1053½

Top strike

Bottom strike for wood floors
Furnished only when ordered

Bottom strike for concrete floors



Locked position LH Bolt on right hand door

1053½

Furnished with top strike and bottom strike for concrete. Other strikes on order.
Packed one handle, rods, guides and strikes in a box with wood screws.
Weight complete, 20½ lbs.

Furnished in Cadmium Plated (K), Japanned (KJ) or Dead Black (KJ1) finish

Specify Class Number, Finish, and Height of Door

If over 8′, specify hand

Cremone Bolts

For Doors or Casements Opening In or Out

Polished and Plated

For Doors or Casements with Wide Stiles Operated from Inside Only

377 Wrought Steel
Cast brass knob

Locked position

378 Wrought Steel
Solid brass handle

For Doors or Casements with Narrow Stiles and for Bookcases

Knob one side

358 Wrought Brass
369 Wrought Steel, cast brass knob

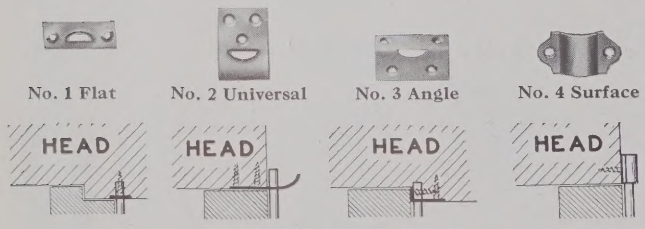
Knobs both sides

358½ Wrought Brass
369½ Wrought Steel, cast brass knobs

For Bookcases
Knob outside, bolt inside

358¼ Wrought Brass
369¼ Wrought Steel, cast brass knob

Strikes



Back plates under the case and guides prevent the rod from marring the surface of the wood. Guides are designed to prevent the finish from being scraped off the rod when bolt is operated.

358, etc. The combination of the slender case and the guides with concealed screw holes makes possible an extra narrow but strong bolt suitable for application to doors or casements with narrow stiles. Furnished on order with a lever handle.

378. As regularly made, handle turns to the left. Furnished on order with handle turning to the right.

All furnished regularly 8′ high but can be cut down on the job to suit conditions, except 358¼, 369¼, which are furnished in lengths as ordered.

377, 378

Case..... 5¼″ x 1⅜″	Rod .....⅝″ half oval
Knob ..... 2½″ x 1¼″	Guides. ..1⅞″ wide
Length, Handle ...2⅜″	Throw ....¾″
Projection .....2⅛″	Weight, each, 3½ lbs.

One in a box with wood screws.

358, Etc.

Case,.....6″ x 15/16″	Rod.....⅜″ half round
Knob..... 1⅝″ x 13/16″	Guides...½″ wide
Projection .....1⅜″	Throw...7/16″
Weight, each 2½ lbs.	

One in a box with wood screws.

Furnished with strikes 1, 2 and 3. No. 4 on order

Finishes described on page 25

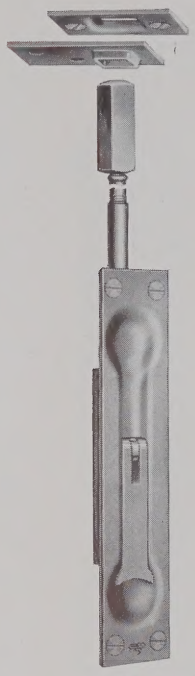
Specify Class Number and Finish (also exact height of door or casement and distance from bottom thereof to proposed center of knob or lever (on 358¼, 369¼ also specify thickness of door)

Lever Flush Bolts

Polished and Plated

12″ One-third full size

382 Wrought Steel
For Thin Doors or Doors with Narrow Stiles



12″ One-third full size

385 Wrought Steel
386 Wrought Bronze

12″ One-quarter full size

387 Wrought Steel

All working parts are enclosed in a metal case. This insures easy operating of the bolt even in a close-fitting mortise, and prevents chips or shavings from dropping into the mechanism.

The springs are made of strong, durable music wire. The strikes are self-centering and the holes are large enough to allow for shrinkage of the door.

382

Plate, $3\frac{3}{4}'' \times \frac{5}{8}''$
Diameter of Rod, $\frac{3}{16}''$
Square Bolt Head, $\frac{5}{16}''$
Depth of Case, $\frac{11}{16}''$
Throw, $\frac{1}{2}''$

Size, Length of Rod (Inches)	Average Net Weight Per Dozen (Lbs.)
6	$3\frac{1}{4}$
9	$3\frac{5}{8}$
12	$3\frac{7}{8}$
18	$4\frac{1}{2}$

One-sixth dozen in a box with $\frac{7}{8}''$ x No.4 wood screws for plate, $\frac{3}{4}''$ x No. 6 for strike.

385, 386

Plate, $6\frac{1}{4}'' \times 1\frac{1}{4}''$
Diameter of Rod, $\frac{1}{4}''$
Square Bolt Head, $\frac{1}{2}''$
Depth of Case, $\frac{3}{4}''$
Throw, $\frac{5}{8}''$

Size, Length of Rod (Inches)	Average Net Weight Per Dozen (Lbs.)	
	385	386
9	$10\frac{3}{4}$	12
12	$11\frac{1}{4}$	$12\frac{1}{2}$
18	$13\frac{1}{2}$	$15\frac{1}{4}$
24	16	18

One-sixth dozen in a box with 1″ x No. 6 wood screws.

387

Width of Plate, $1\frac{1}{4}''$
Lip Extension, $1\frac{1}{2}''$
Square Bolt Head, $\frac{1}{2}''$
Depth of Case, $\frac{3}{4}''$
Throw, $\frac{5}{8}''$

Size, Length of Plate (Inches)	Average Net Weight Per Dozen (Lbs.)
9	$11\frac{1}{4}$
12	$13\frac{1}{2}$
18	$18\frac{1}{4}$
24	23

One-sixth dozen in a box with 1″ x No. 6 wood screws.

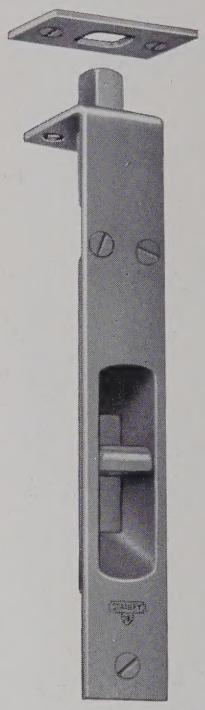
Finishes described on page 25

Specify Class Number, Finish and Size

Flush Bolts

6″ One-half full size

6″ One-half full size



6″ One-half full size

Wrought Steel

393½ Planished and Plated

Wrought Steel

394 Planished and Plated

Wrought Steel

396 Polished and Plated

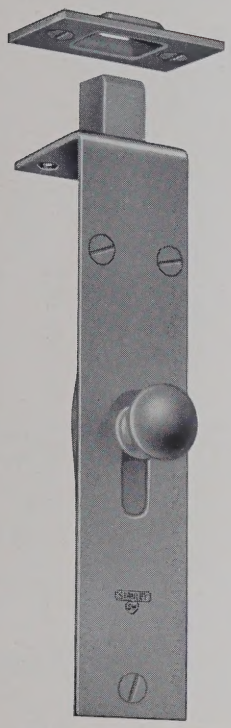
Number	Size, Length of Plate (Inches)	Width of Plate (Inches)	Lip Extension (Inches)	Bolt	Throw (Inches)	Size of Wood Screws (Plate)	Average Net Weight Per Dozen (Lbs.)
393½	6	¾	1⅜	¼″ round	1⅛	¾ x 5	3⅜
	9	¾	1⅜	¼″ round	1⅛	¾ x 5	4⅝
	12	¾	1⅜	¼″ round	1⅛	¾ x 5	6
	18	¾	1⅜	¼″ round	1⅛	¾ x 5	8½
394	4	½	¾	3/16″ round	½	¾ x 5	1⅛
	6	½	¾	3/16″ round	½	¾ x 5	1⅝
	8	½	¾	3/16″ round	½	¾ x 5	2¼
396	6	1	1⅜	⅜″ square	1	1¼ x 7	5⅛
	9	1	1⅜	⅜″ square	1	1¼ x 7	6⅝
	12	1	1⅜	⅜″ square	1	1¼ x 7	8⅝

9″ and smaller one dozen in a box; larger sizes one-half dozen; with wood screws.

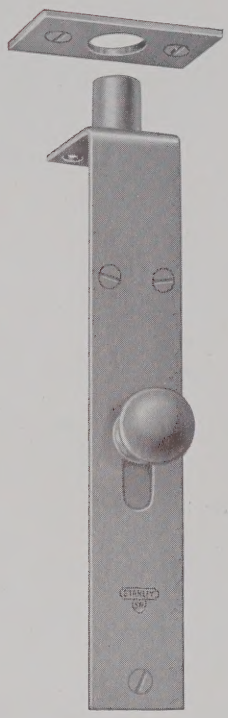
Finishes described on page 25

Specify Class Number, Finish and Size

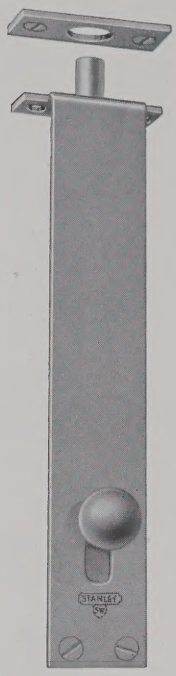
Flush Bolts



6″ One-third full size



6″ One-third full size



6″ One-third full size

Wrought Steel
393 Polished and Plated

Wrought Steel
395 Planished and Plated

Wrought Steel
397 Planished and Plated

Number	Size, Length of Plate (Inches)	Width of Plate (Inches)	Lip Extension (Inches)	Bolt	Throw (Inches)	Size of Wood Screws (Plate)	Average Net Weight Per Dozen (Lbs.)
393	6	1 1/4	1 3/8	1/2″ square	3/4	1 1/4 x 8	6 1/2
	9	1 1/4	1 3/8	1/2″ square	3/4	1 1/4 x 8	8 3/4
	12	1 1/4	1 3/8	1/2″ square	3/4	1 1/4 x 8	10 5/8
	18	1 1/4	1 3/8	1/2″ square	3/4	1 1/4 x 8	14 3/4
395	6	1	1 3/8	1/2″ round	3/4	1 x 6	5 1/4
	9	1	1 3/8	1/2″ round	3/4	1 x 6	6 3/4
	12	1	1 3/8	1/2″ round	3/4	1 x 6	8 3/8
397	3	5/8	5/8	1/4″ round	1/2	3/4 x 5	1 1/2
	4	1	11/16	5/16″ round	1/2	3/4 x 5	2 1/8
	6	1	11/16	5/16″ round	1/2	3/4 x 5	3 1/8

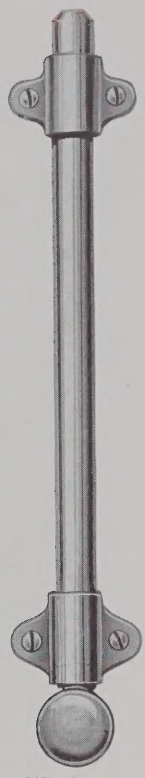
6″ and smaller one dozen in a box; larger sizes one-half dozen; with wood screws.

Finishes described on page 25

Specify Class Number, Finish and Size

Surface Bolts

Polished and Plated



367—381—12″
One-third full size

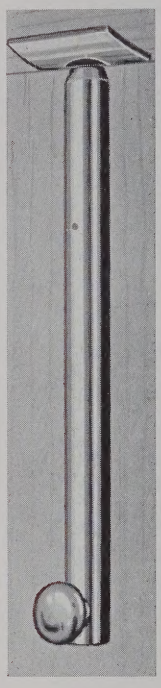
Strikes

No. 1 Flat

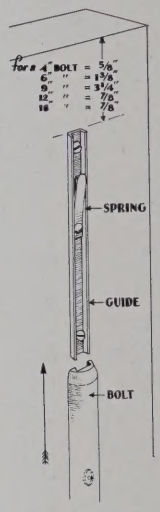
No. 2 Universal

No. 3 Angle

366—367 Wrought Brass
379—381 Wrought Steel



Applied
6″ One-half full size



Showing application

365 Wrought Brass

Back plates under guides prevent the rod from marring the surface of the wood. Guides are made to prevent the finish from being scraped off the rod when bolt is operated.

When bolt is operated the rod will not mar the surface of the wood. The concealed guide is made of stainless steel to insure greater strength and rigidity. Especially suited for narrow stiles.

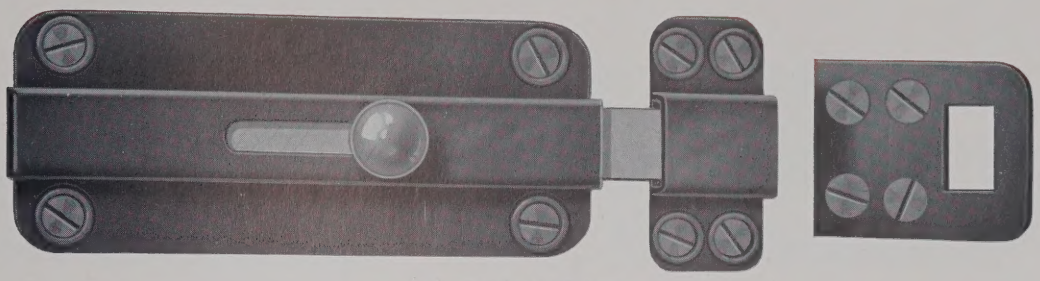
Number	Size, Length (Inches)	Rod Half Round (Inches)	Throw (Inches)	Guides (Inches)	Size of Wood Screws (Bolt)	Average Net Weight Per Dozen (Lbs.)	
						Brass	Steel
365	4	1/2	1	.....	7/8 x 4 RH	2 7/8	...
	6	1/2	1	.....	7/8 x 4 RH	3 3/8	...
	9	1/2	1	.....	7/8 x 4 RH	4 1/4	...
	12	1/2	1	.....	7/8 x 4 RH	6 1/2	...
	18	1/2	1	.....	7/8 x 4 RH	8 1/2	...
366-379	3	3/8	5/8	5/8 x 15/16	5/8 x 5 OH	2 1/8	1 7/8
	4	3/8	1	5/8 x 15/16	5/8 x 5 OH	2 1/4	2
	6	3/8	1	5/8 x 15/16	5/8 x 5 OH	2 7/8	2 1/2
	9	3/8	1	5/8 x 15/16	5/8 x 5 OH	3 3/8	3
367-381	4	1/2	5/8	1 x 1 1/2	3/4 x 6 OH	3 5/8	3 1/4
	6	1/2	1 1/4	1 x 1 1/2	3/4 x 6 OH	4 3/8	4
	9	1/2	1 1/4	1 x 1 1/2	3/4 x 6 OH	5 1/2	5
	12	1/2	1 1/4	1 x 1 1/2	3/4 x 6 OH	6 3/4	6 1/8
	18	1/2	1 1/4	1 x 1 1/2	3/4 x 6 OH	9 1/4	8 1/8

One dozen in a box with wood screws. Sizes 3″ and 4″ with strikes 1 and 3; larger sizes with 1, 2 and 3.

Finishes described on page 25

Specify Class Number, Finish and Size

Case Bolts



6″ One-half full size

Wrought Steel

With Wood Screws

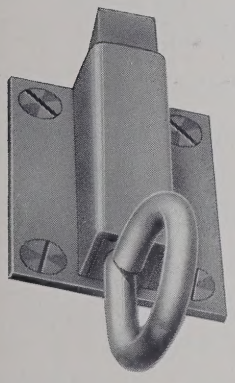
416 Planished and Plated
1096 Japanned with Cadmium Plated Bolt and Brass Plated Knob

Size, Length of Case (Inches)	Width of Case (Inches)	Gauge of Metal	Bolt (Inches)	Strikes (Inches)		Size of Wood Screws (Plates)	Average Net Weight Per Dozen (Lbs.)
				Flat	Surface		
3	1 11/16	.062	5/16 x 1/2	2 5/16 x 1 11/16	2 x 7/8	7/8 x 8	6 3/8
4	2 7/16	.062	1/2 x 3/4	2 5/16 x 1 11/16	2 3/4 x 1 1/4	1 x 10	13
6	2 7/16	.062	1/2 x 3/4	2 5/16 x 1 11/16	2 3/4 x 1 1/4	1 x 10	14 1/4

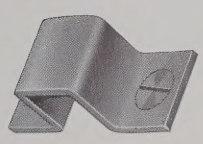
3″ one dozen in a box; 4″ and 6″ one-half dozen; with wood screws. Finishes described on page 25.

Specify Class Number, (Finish on* 416*) and Size

Transom Bolts

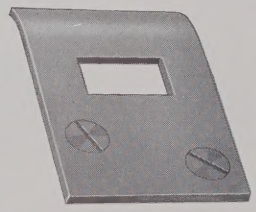


Surface Strike



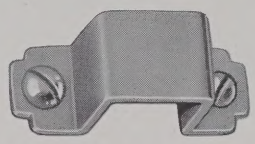
Furnished with 1165

Universal Strike

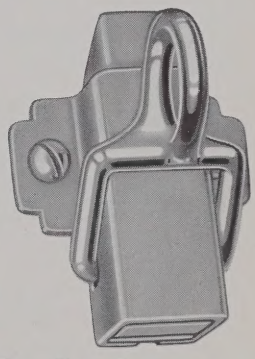


Furnished with 1165-1166-1166½

Surface Strike



Furnished separately on order



Two-thirds full size

Wrought Steel

1165 Planished and Plated

Ring handle and bolt are made of one piece of steel.

Wrought Steel

1166 Planished and Plated

Wrought Bronze

1166½ Finely Finished

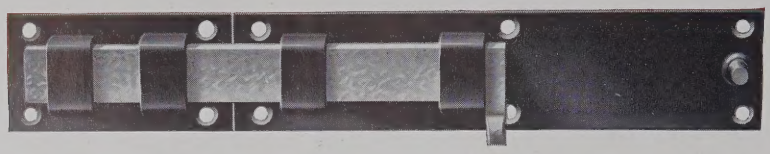
The springs are made of strong music wire. The rings are of sufficient size for operating with a window pole.

Number	Case (Inches)	Gauge of Metal (Case)	Diameter of Ring Inside (Inches)	Throw (Inches)	Strikes (Inches)		Size of Wood Screws (Plate)	Net Weight Per Dozen (Lbs.)
					Surface	Universal		
1165 No. 1	1 x 1 11/16	.065	9/16	5/16	1 3/4 x 1/2	1 13/16 x 1 3/4	3/4 x 7 FH	2 3/4
No. 2	2 x 1 5/8	.065	9/16	1/2	1 5/8 x 5/8	1 9/16 x 1 3/8	1 x 8 FH	4 3/4
1166-1166½	2 x 2	.095	7/8	1/2	2 x 3/4	2 15/32 x 1 3/8	1 x 10 RH	4

1165—one dozen in a box, 1166, 1166½—one-half dozen; with wood screws. Finishes described on page 25.

Specify Class Number, Finish and (Size on* 1165*)

Shutter Bolts



10″ One-quarter full size

Wrought Steel

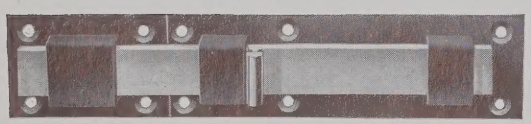
1110 Japanned with Cadmium Plated Bolt without screws

1112 Japanned with Galvanized Bolt without screws

1326 Galvanized with wood screws

Size, Length of Bolt (Inches)	Plate (Inches)	Gauge of Metal (Plate)	Bolt (Inches)	Strike (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)	
						1110-1112	1326
6	$6\frac{11}{16}$ x $1\frac{3}{4}$	.077	$\frac{1}{4}$ x $\frac{3}{4}$	$3\frac{1}{8}$ x $1\frac{3}{4}$	$\frac{7}{8}$ x 8	$10\frac{1}{2}$	$11\frac{1}{2}$
8	8 $\frac{3}{4}$ x 2	.077	$\frac{1}{4}$ x $\frac{7}{8}$	$3\frac{3}{4}$ x 2	$\frac{7}{8}$ x 8	$15\frac{1}{2}$	$16\frac{1}{2}$
10	10 $\frac{3}{4}$ x 2	.077	$\frac{1}{4}$ x 1	$4\frac{1}{2}$ x 2	$\frac{7}{8}$ x 8	$19\frac{1}{4}$	$20\frac{1}{4}$

One-half dozen in a box; 1110-1112 without screws; 1326 with wood screws.

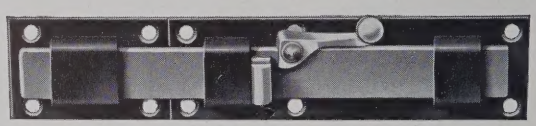


10″ One-quarter full size

Wrought Steel

1114 Japanned with Cadmium Plated Bolt without screws

With Locking Device



10″ One-quarter full size

Wrought Steel

1118 Japanned with Cadmium Plated Bolt without screws

Locking device holds bolt positively in locked position.

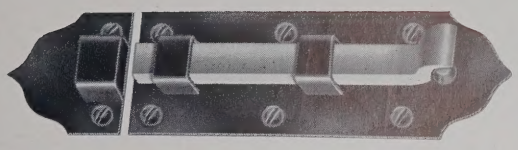
Size, Length of Bolt (Inches)	Plate (Inches)	Gauge of Metal (Plate)	Bolt (Inches)	Strike (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
6	5 x $1\frac{3}{4}$	.077	$\frac{1}{4}$ x $\frac{3}{4}$	$2\frac{1}{8}$ x $1\frac{3}{4}$	$\frac{7}{8}$ x 8	$9\frac{1}{4}$
8	6 x $1\frac{3}{4}$	.077	$\frac{1}{4}$ x $\frac{7}{8}$	$2\frac{5}{8}$ x $1\frac{3}{4}$	$\frac{7}{8}$ x 8	$11\frac{3}{4}$
10	$7\frac{3}{4}$ x 2	.077	$\frac{1}{4}$ x 1	$3\frac{1}{8}$ x 2	$\frac{7}{8}$ x 8	$16\frac{1}{2}$

One-half dozen in a box without screws.

Specify Class Number and Size

Spring and Square Bolts

For Cabinets



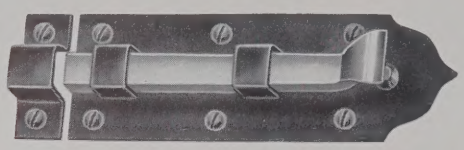
4″ One-half full size

Wrought Steel

Sc1150 Japanned with Cadmium Plated Bolt with wood screws

Wrought Brass

Sc1151 Bright finish with wood screws



4″ One-half full size

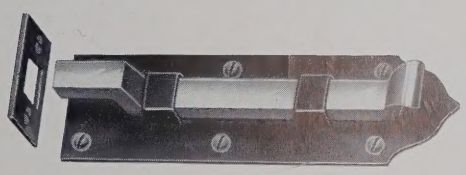
Wrought Steel

Sc1152 Japanned with Cadmium Plated Bolt with wood screws

Wrought Brass

Sc1153 Bright finish with wood screws

Made in lengths 2″, 2½″, 3″ and 4″.



4″ One-half full size

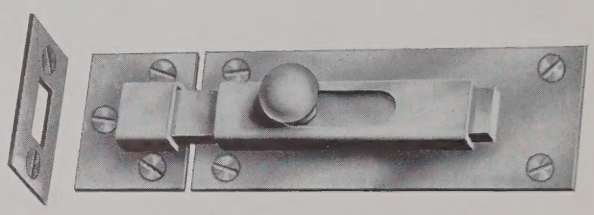
Wrought Steel

Sc1154 Japanned with Cadmium Plated Bolt with wood screws

Wrought Brass

Sc1155 Bright finish with wood screws

Made in lengths 2½″, 3″ and 4″.



Two-thirds full size

Wrought Steel

414 Planished and Plated with wood screws

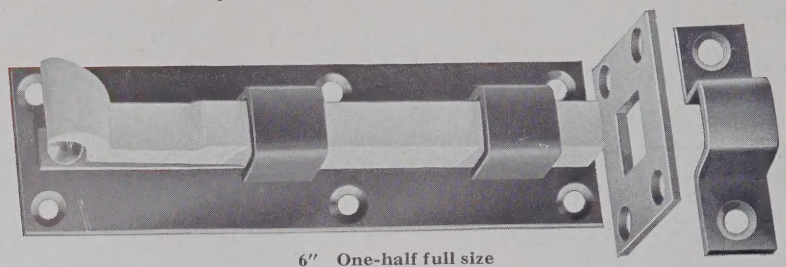
Made in 3″ length.

Number	Size, Length of Plate (Inches)	Width of Plate (Inches)	Gauge of Metal (Plate)	Bolt (Inches)	Offset (Inches)	Strikes (Inches) Flat	Strikes (Inches) Surface	Quantity and Size of Wood Screws (Plate)	Average Net Weight Per Dozen (Lbs.)
414	3	1⅛	.055	⅛ x ⅜	..	⅝ x 1⅛	1⅛ x ⅞	4–⅝ x 4 FH	2
						Sc1150 Sc1151	Sc1152 Sc1153		
Sc1150	**2**	⅞	.036	5/32	..	⅞ x ⅞	1 x ¼	4–½ x 5 RH	¾
Sc1151	**2½**	1	.036	13/64	..	1 x 1	1 x ⅜	4–½ x 5 RH	1
Sc1152	**3**	1	.036	¼	..	1 x 1	1 x ⅜	6–½ x 5 RH	1¼
Sc1153	**4**	1⅛	.036	5/16	..	1⅛ x 1⅛	1⅛ x ½	6–½ x 6 RH	1⅞
Sc1154	**2½**	1	.036	3/16	¼	1⅛ x 11/16		4–½ x 5 RH	1
Sc1155	**3**	1	.036	¼	9/32	1⅛ x 11/16		6–½ x 5 RH	1¼
	4	1¼	.036	5/16	⅜	1¼ x ⅝		6–½ x 6 RH	1⅞

One dozen in a box with wood screws.

Specify Class Number and (Size except on 414)

Heavy Square Spring Bolts



6″ One-half full size

Wrought Steel

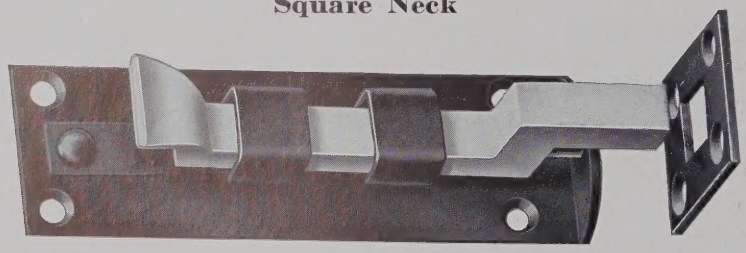
1088 Japanned with Cadmium Plated Bolt without screws
Sc1088 Japanned with Cadmium Plated Bolt with wood screws
1336 Galvanized with wood screws

Equipped with a heavy steel spring which holds the bolt in position.

Size, Length of Plate (Inches)	Width of Plate (Inches)	Gauge of Metal (Plate)	Bolt (Inches)	Strikes (Inches)		Quantity and Size of Wood Screws (Plate)	Average Net Weight Per Dozen (Lbs.)		Dozen in a Case	Average Case Weight (Lbs.)
				Flat	Surface		1088	Sc1088 1336	1088	
3	1	.062	5/16	1 1/2 x 1	1 1/2 x 7/16	4– 5/8 x 5	2 3/8	2 5/8	..	..
4	1 5/16	.077	3/8	1 1/2 x 1 1/8	2 1/8 x 5/8	4– 3/4 x 6	4 3/4	4 7/8	..	..
5	1 5/16	.077	3/8	1 1/2 x 1 1/8	2 1/8 x 5/8	6– 3/4 x 7	5 1/8	5 7/8	..	..
6	1 3/4	.077	1/2	2 x 1 1/2	2 1/2 x 1	6–1 x 8	10 1/2	10 7/8	5	54
8	2	.077	5/8	2 1/4 x 1 9/16	2 11/16 x 1	8–1 x 9	17	18 3/4	3	52
10	2 1/4	.092	3/4	2 3/4 x 2 1/16	2 15/16 x 1 1/4	8–1 x 9	30 1/2	31 1/2	..	..
12	2 1/4	.092	3/4	2 3/4 x 2 1/16	2 15/16 x 1 1/4	8–1 x 9	36 1/2	37 1/2	..	..

6″ and smaller one dozen in a box; 8″ one-half dozen; 10″ and 12″ one-quarter dozen; 1088 without screws; Sc1088 and 1336 with wood screws.

Square Neck



6″ One-half full size

Wrought Steel

1102 Japanned with Cadmium Plated Bolt without screws
1332 Galvanized with wood screws

Equipped with a heavy steel spring which holds the bolt in position.

Size, Length of Plate (Inches)	Width of Plate (Inches)	Gauge of Metal (Plate)	Bolt (Inches)	Offset (Inches)	Strike (Inches)	Quantity and Size of Wood Screws (Plate)	Average Net Weight Per Dozen (Lbs.)	
							1102	1332
4	1 1/4	.077	3/8	1/2	1 1/2 x 1 1/8	4–1 x 7 FH	4 5/8	5
6	1 3/4	.077	1/2	11/16	2 x 1 1/2	6–1 x 8 FH	10 1/4	11 1/4
8	2	.077	5/8	3/4	2 1/4 x 1 9/16	8–1 x 8 FH	17 3/4	19

One-half dozen in a box; 1102 without screws; 1332 with wood screws.

Specify Class Number and Size

Extra Heavy Spring Bolts

For Industrial Buildings

Wrought Steel

1050 Japanned with Cadmium Plated Bolt without screws

Equipped with a heavy spring which holds the bolt in position. The handle loop is 2″ high allowing ample space for the fingers.
Width of plate 1¾″; square bolt head ¾″; throw 1¼″.

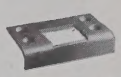
Size, Length (Inches)	Quantity and Size of Wood Screws (Plate)	Average Net Weight Per Dozen (Lbs.)
8	6–1 x 9	17
10	6–1 x 9	19
12	7–1 x 9	21
15	7–1 x 9	24
18	8–1 x 9	28
***24**	8–1 x 9	34
30	10–1 x 9	44

One-quarter dozen in a box without screws; 8″, 10″, and 12″ with strike No. 1; larger sizes with No. 4; No. 2 on order.

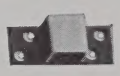
*Size 24″ furnished on order Cadmium plated, with 3″ throw, with screws and strikes for wood and concrete floors, under number **GT1050K-24″.**

Strikes

No. 1 Flat



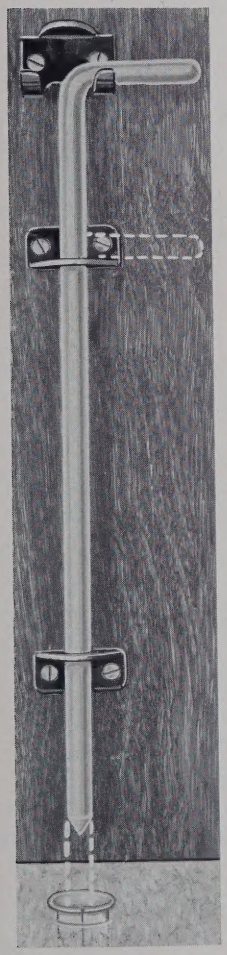
No. 2 Angle
Furnished on order



No. 4 Surface

12″
One-third full size

Specify Class Number and Size



Applied
24″ One-sixth full size

Cane Bolts

For Garages and Industrial Buildings

Wrought Steel

1010 Cadmium Plated Bolt with Japanned Guides and Bolt Rest

A strong, positive bolt for locking doors; also used for holding doors open. The bolt drops by gravity when the handle is lifted out of the bolt rest. The lip at the top prevents the bolt from slipping out of the guide. The throw is practically unlimited.

Size, Length (Inches)	Round Bolt (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
12	½	1¼ x 12	16½	..	..
18	⅝	1¼ x 12	64	1	65
24	⅝	1¼ x 12	70	1	72

One-sixth dozen in a box with wood screws, and strikes as illustrated.

Strikes

For wood

For concrete

Specify Class Number and Size

Chain Bolts

For Garages, Residences and Industrial Buildings

Swinging Latch Type Bolt Head

One-third full size

Showing action of bolt head

Angle Strike

For Doors Opening Out

Furnished with 355-1054-1055

Universal Strike

For Doors Opening In

Furnished with 1054

Surface Strike

For Doors Opening In

Furnished with 355-1055

Design of case for 1055, size 10″

6″ One-third full size
Design of 8″ and smaller

Wrought Steel
1054 Japanned

Pivoted action of the bolt head permits exceptionally easy closing of the door.

The bolt head is so shaped that it automatically holds the door tightly against the stops.

Equipped with a strong music wire spring which throws the bolt automatically when the chain is released.

Can be used on doors opening in by reversing the bolt and using the universal strike.

Slotted screw holes permit locating of bolt in proper relation to strike.

Chain is 24″ long.

Wrought Steel
1055 Japanned
355 Planished and Plated

Equipped with a strong music wire spring which throws the bolt automatically when the chain is released.

Can be used on doors opening in by reversing the bolt and using the surface strike.

Chain is 24″ long.

Smaller sizes in plated finishes are for cabinets or double screen doors.

Furnished on order in **Wrought Brass** under number **355¼** in sizes up to 6″, inclusive.

Note: Recommended Location of Chain Guide

Number	Size, Length of Bolt (Inches)	Case (Inches)	Diameter of Bolt (Inches)	Bolt Head (Inches)	Throw (Inches)	Strikes (Inches)			Quantity and Size of Wood Screws (Plate)	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
						Angle	Surface	Universal			1054 1055	
1054	5½	4½ x 2	..	1¼x1x⅝	⅝	2 x 1½ x 5/16	.....	3 3/16 x 2	4–1x8 RH	10½	5	56
	2	1½x1 1/16	3/8	.....	5/16	½x1 ⅛x⅛	1 ¼x ½x ½	.....	4– ⅝x 4	2⅜	..	..
	3	2½x1 ⅜	½	.....	½	¾x1 ½x¼	1 7/16x 11/16x ⅝	.....	4– ¾x 6	4¼	..	..
	4	3⅜x1 ½	9/16	.....	⅝	⅞x1 ⅝x5/16	1 13/16x ¾x 13/16	.....	4– ¾x 7	6⅝	..	..
1055-	**5**	4⅛x1 11/16	9/16	.....	11/16	15/16x1 11/16x⅜	1 13/16x ¾x 15/16	.....	4– ¾x 7	7½	..	..
355	**6**	5 x2	23/32	.....	11/16	1 ⅛x1 15/16x½	2 x1 x1 1/16	.....	4–1 x 8	12½	5	64
	8	7 x2 ¾	25/32	.....	13/16	1 ⅛x2 ¾x½	2 5/16x1 ⅛x1 ⅛	.....	4–1¼x10	22	..	..
	***10**	9 x3 ⅛	27/32	.....	⅞	1 ⅛x2 ¾x½	2 ⅝x1 ¼x1 ¼	.....	6–1¼x12	34½	..	..

2″ one dozen in a box; 3″, 4″, 5″, 5½″ and 6″ one-half dozen; 8″ one-quarter dozen; 10″ one-twelfth dozen; with wood screws.

1054, 1055 furnished in Japanned (J) or Cadmium Plated (K) finish; 355 in Plated finishes

*355 not furnished in size 10″.

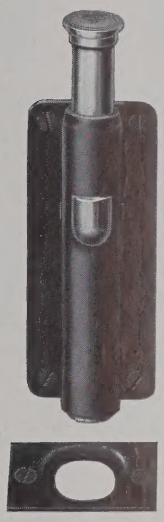
Finishes described on page 25

***Specify Class Number, Finish and (Size on* 355, 1055)**

Foot Bolts

For Garages, Residences and Industrial Buildings

Spring Action



6″ One-third full size
Design of 8″ and smaller

Design of case for 1056, 1057, size 10″

Concrete Strike

1138
Cadmium Plated
Furnished regularly with 10″, 6″ and 8″ only on order

Positive Action

6″ One-third full size
Design of 6″ and 8″

Wrought Steel

1056 Japanned
356 Planished and Plated

When released the bolt is retracted by a heavy music wire spring.

Furnished on order in **Wrought Brass** under number **356¼,** sizes up to 6″, inclusive.

Wrought Steel

1057 Japanned
357 Planished and Plated

Bolt need not be thrown to extreme position before it will hold, as it will hold in any position.

Smaller sizes in plated finishes are for cabinets or double screen doors.

Operated by pressure of the foot on the cap and released by pressure on the trip.

Number	Size, Length of Bolt (Inches)	Case (Inches)	Diameter of Bolt (Inches)	Throw (Inches)	Strike (Inches)	Quantity and Size of Wood Screws (Plate)	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case 1056-1057	Average Case Weight (Lbs.)
1056-356	**2**	1½ x 1 1/16	13/32	3/8	1 ½ x 5/8	4– 5/8 x 4	1⅛	..	..
	3	2½ x 1 3/8	½	½	1 ¾ x 15/16	4– ¾ x 6	2½	..	..
	4	3⅜ x 1 ½	39/64	1	2 ¼ x 1 ⅛	4– ¾ x 7	4¾	..	..
	5	4½ x 1 11/16	39/64	1	2 ¼ x 1 ⅛	4– ¾ x 7	5½	..	..
	6	5 x 2	23/32	1 3/32	2 13/32 x 1 ¼	4–1 x 8	9⅝	5	50
	8	7 x 2 ¾	13/16	1¼	2 ¾ x 1 ½	4–1¼ x 10	18	..	..
	***10**	9 x 3 ⅜	27/32	1¼	2 ⅜ x 2	6–1¼ x 12	33	..	..
1057-357	**6**	5 x 2	23/32	¾	2 13/32 x 1 ¼	4–1 x 8	9⅝	5	50
	8	7 x 2 ¾	13/16	⅞	2 ¾ x 1 ½	4–1¼ x 10	17	..	..
	***10**	9 x 3 ⅜	27/32	1⅛	2 ⅜ x 2	6–1¼ x 12	31	..	..

2″ one dozen in a box; 3″, 4″, 5″, and 6″ one-half dozen; 8″ one-quarter dozen; 10″ one-twelfth dozen; all with wood screws.

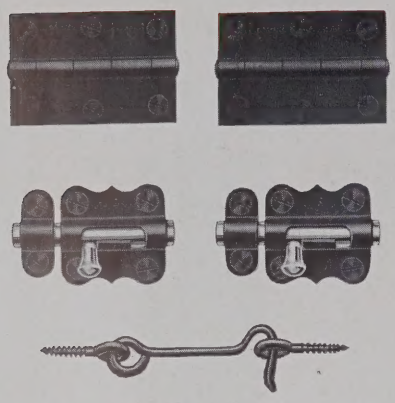
1056, 1057 furnished in Japanned (J) or Cadmium Plated (K) finish; 356, 357 in Plated finishes

*356, 357 not furnished in size 10″.

Finishes described on page 25

Specify Class Number, Finish and Size

Cellar Window Sets

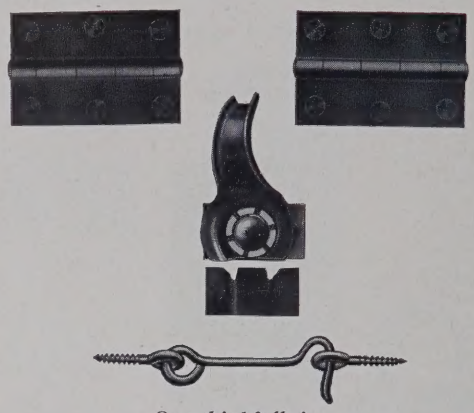


One-third full size

1760 Wrought Steel

Set consists of:

One pair of hinges, 2½" x 1 11/16"
Two bolts, 2½"
One hook and eye, 2½"

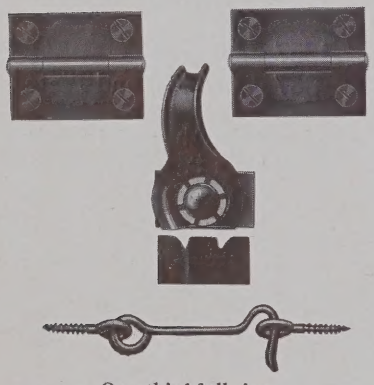


One-third full size

1761 Wrought Steel

Set consists of:

One pair of hinges, 2½" x 1 11/16"
One cam action fastener, 2½"
One hook and eye, 2½"

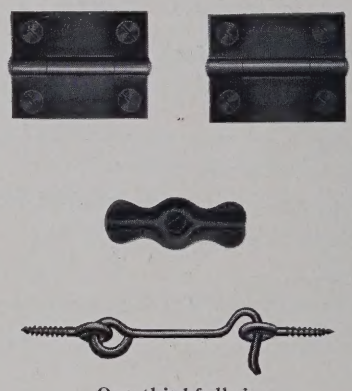


One-third full size

1762 Wrought Steel

Set consists of:

One pair of hinges, 2" x 1 9/16"
One cam action fastener, 2½"
One hook and eye, 2½"



One-third full size

1764 Wrought Steel

Set consists of:

One pair of hinges, 2" x 1 9/16"
One hook and eye, 2½"
One button, 2"

Number	Size of Wood Screws				Average Net Weight Per Dozen Sets (Lbs.)	Dozen Sets in a Case	Average Case Weight (Lbs.)
	Hinges	Bolts	Buttons	Fastener			
1760	¾ x 6	¾ x 6	.....	.....	9	6	56
1761	¾ x 6	.....	.....	¾ x 7	5½	12	68
1762	¾ x 6	.....	.....	¾ x 7	5⅜	12	65
1764	¾ x 6	.....	1¼ x 8	.....	3¼	12	40

One dozen sets in a carton, each set wrapped in paper, with wood screws.

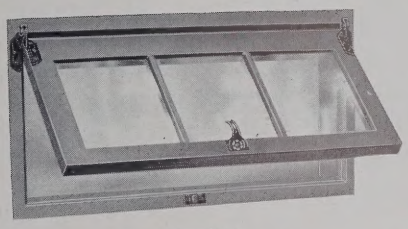
Furnished in Japanned (J) or Cadmium (K) finish

Specify Class Number and Finish

Cellar Window Sets

Hold-Open Type

Ideal where Ventilation is Essential



Applied

Adjustable friction in the hinges holds window open at any angle. The friction is easily adjustable for various weights of windows by the use of a screw driver or wrench.

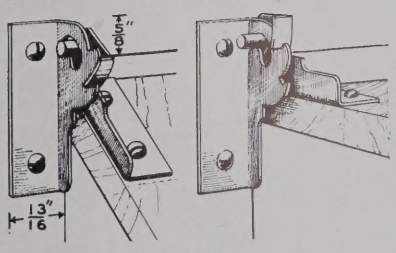
One-third full size

1769 Wrought Steel

Set consists of:

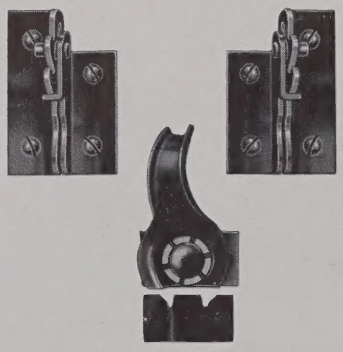
One pair friction hinges, $3\frac{1}{2}'' \times 1\frac{7}{8}''$
Width of each leaf, $\frac{13}{16}''$
One cam action fastener, $2\frac{1}{2}''$

Hinges furnished separately under number **1942.**



Applied

Window is positively held open in two positions as shown.



One-third full size

1768 Wrought Steel

Set consists of:

One pair hinges { frame leaf, $2\frac{1}{2}'' \times \frac{13}{16}''$; sash leaf, $1\frac{7}{8}'' \times \frac{13}{16}''$
One cam action fastener, $2\frac{1}{2}''$

Hinges furnished separately under number **1938.**

For hinged windows in cellars, dairies, poultry houses, stables, etc.

The cam action fastener with large loop handle performs two functions: (1) in locking it pulls the window tight against the stops, (2) in opening it forces open a window which sticks by turning the handle beyond center to the left. A friction washer holds the cam in proper position.

Number	Size of Wood Screws		Average Net Weight Per Dozen Sets (Lbs.)	Dozen Sets in a Case	Average Case Weight (Lbs.)
	Hinges	Fasteners			
1768	1 x 9 RH	$\frac{3}{4}$ x 7	$6\frac{1}{2}$	12	$79\frac{1}{2}$
1769	1 x 7	$\frac{3}{4}$ x 7	7	12	85

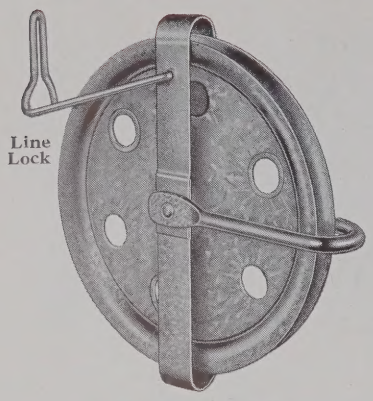
One dozen sets in a carton, each set wrapped in paper, with wood screws.

Furnished in Japanned (J) or Cadmium (K) finish

Specify Class Number and Finish

Clothesline Hardware

Pulleys



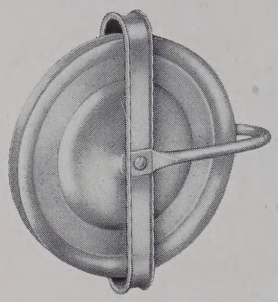
One-quarter full size

4100 Wrought Steel

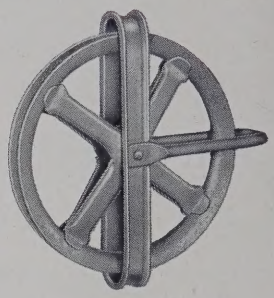
The deep groove prevents the line from jumping the wheel. A specially designed bearing insures easy and noiseless turning of the wheel. Requires no oiling. One of the pulleys is equipped with a line lock which holds the line stationary when carrying clothes.

Wheel (Inches)	Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
7	32	1	33

One pair in a package, one with line lock. Galvanized finish.



One-quarter full size



One-quarter full size

4105 Wrought Steel 4106 Wrought Steel

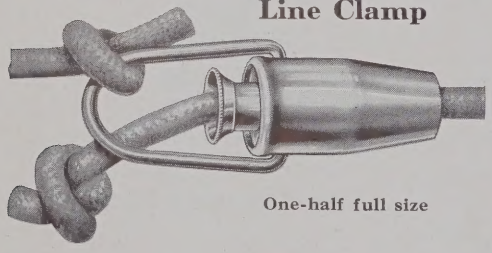
4105. The disc wheel is made of two parts welded together, and is both attractive and sturdy in construction. A brass bushing on the axle insures easy turning and long wear.

4106. A brass bushing on the axle insures easy turning and long wear. Bail securely riveted to frame.

Wheel (Inches)	Average Net Weight Per Dozen (Lbs.)		Dozen in a Case	Average Case Weight (Lbs.)	
	4105	4106		4105	4106
5	7½	6¾	4	31	28

One dozen in a box. 4105 Baked Aluminum finish, 4106 Galvanized finish.

"Pul-Tite" Line Clamp



One-half full size

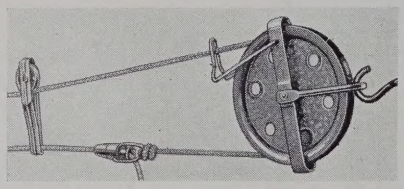
7070 Wrought Brass

For tightening clotheslines, tennis or volley-ball nets, tent lines, ropes or wires. A pull on the end of the line tightens it. The line cannot slip through until the flared end of the plunger is pulled out. Either rope or wire from 1/8" to 5/16" in thickness can be used.

Length (Inches)	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
3¾	3	12	38

One dozen on a display card. Sprayed Brass finish.

Line Support



Showing application of articles illustrated

One-quarter full size

4101 Wrought Steel

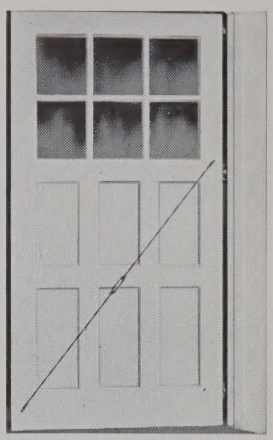
To prevent clotheslines from sagging or tangling. Easily applied by slipping line through side of frame.

Length (Inches)	Average Net Weight Per Dozen (Lbs.)
6⅛	2

One dozen in a box. Cadmium finish.

Specify Class Number

Garage Door Brace



6′ Applied (Inside view)

2640 Wrought Steel

Used to prevent doors from sagging and to keep them in alignment or to plumb doors already sagged.

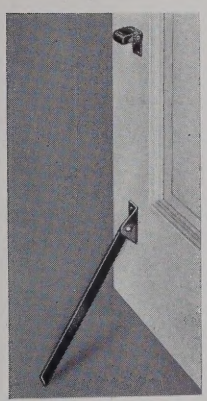
Made of heavy steel rod, 9/32″ in diameter, with malleable iron turnbuckle.

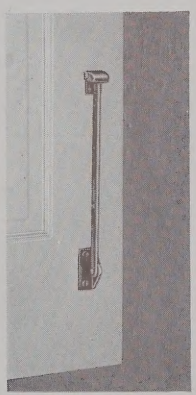
Applied on the inside of the door, one end being fastened to the hinge stile and the other diagonally across the door to the lower outside corner.

Size, Length (Feet)	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
5	14	1	15
6	17½	1	19
7	20½	1	22
8	22¾	1	24
9	25¼	1	26½
10	27½	1	29

One dozen in a corrugated carton with wood screws.

Garage Door Holder





Applied

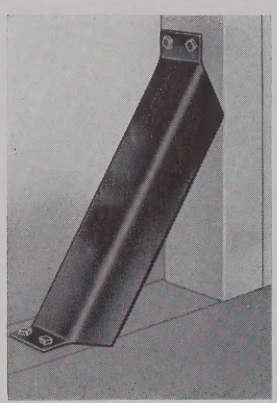
1007 Wrought Steel

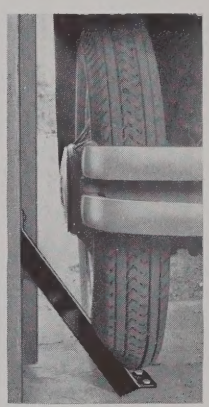
For holding doors open. To operate, merely lift the cap with the foot and the arm will drop down. To close the door, raise the arm with the foot and it will engage automatically in the cap. The sharp point will hold on wood or concrete.

Length (Inches)	Size of Wood Screws		Average Net Weight Per Pair (Lbs.)
	Base	Catch	
12¼	1¼ x 12	⅝ x 8	1⅜

One pair in a box with wood screws.

Garage Door Wheel Guard





Applied

1963 Wrought Steel

For private and public garages, preventing damage to hub caps, fenders and door casings.

Size (Inches)	Size of Lag Screws	Average Net Weight Per Pair (Lbs.)
15 x 4¾	⅜ x 2	10

One pair in a package with lag screws.

Furnished in Japanned (J) or Cadmium (K) finish

Specify Class Number, Finish and (Size on 2640)

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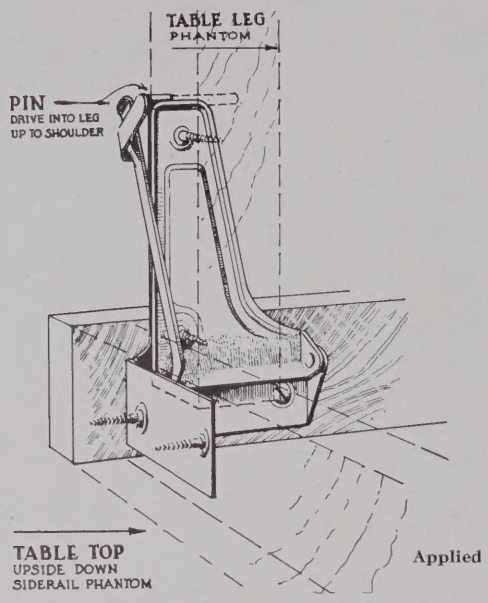
Card Table Leg Braces



Set 448 Wrought Steel

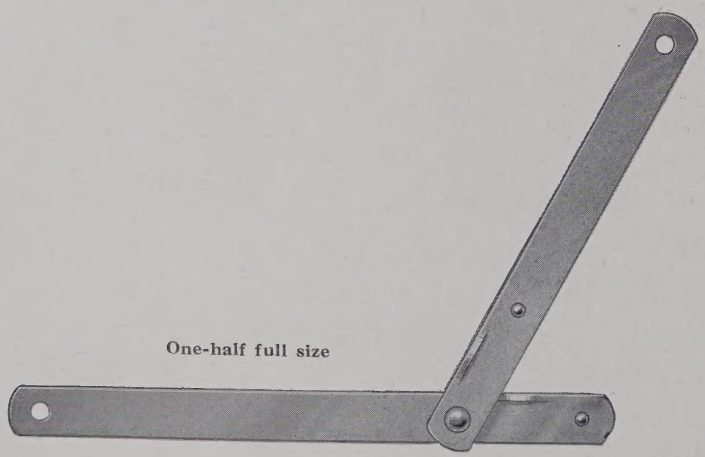
A set consists of four braces with screws and pins.

For tables having an apron, or side rail, 1⅛" or more in depth.

The angle plate is fastened to the apron, and the moving leaf to the leg, with screws. A hole is drilled in the leg to receive the pin which serves as a bearing surface for the sliding arm. A positive catch holds the leg braced in the open position and a friction arrangement holds the folded leg up under the top.

Table Corner Brace (Inches)	Leg Brace (Inches)	Width of Corner Brace (Inches)	Gauge of Metal		Size of OH Wood Screws	Average Net Weight Per Dozen Sets (Lbs.)
			Leg Brace	Corner Brace		
4 11/16 x 2 13/16	4 1/16	1⅛	.053	.062	6–¾ x 7	16½

One set in a box with wood screws and pins. Furnished in Cadmium or Mahogany lacquer finish. Other finishes on order.



441 Wrought Steel

Length Overall (Inches)	Width (Inches)	Gauge of Metal	Size of RH Wood Screws	Average Net Weight Per Dozen (Lbs.)
9½	½	.058	1 x 10	1½

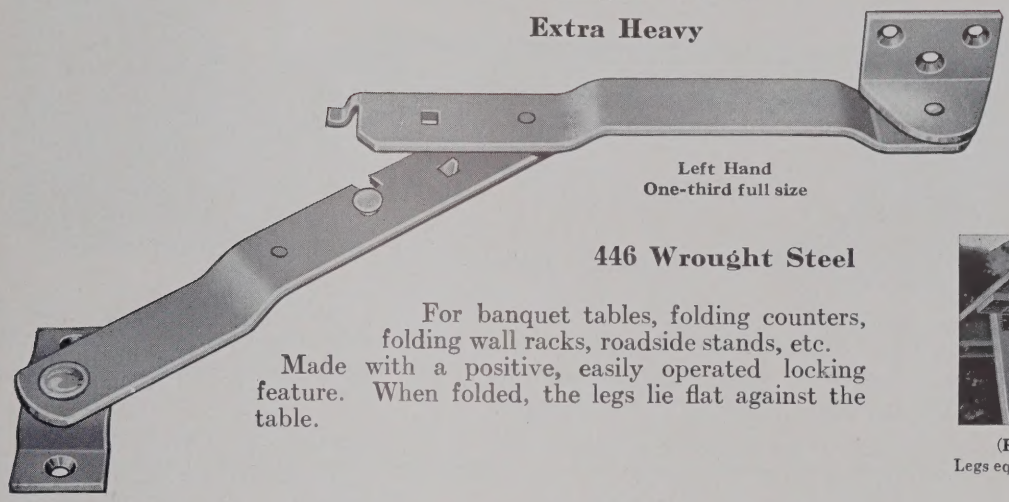
Two dozen in a box with wood screws. Furnished in Nickel finish.

Specify Class Number and (Finish on 448)

Table Leg Braces

For Banquet Tables

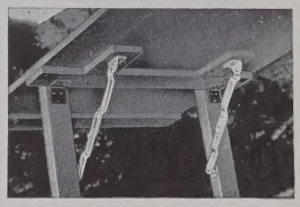
Extra Heavy



Left Hand
One-third full size

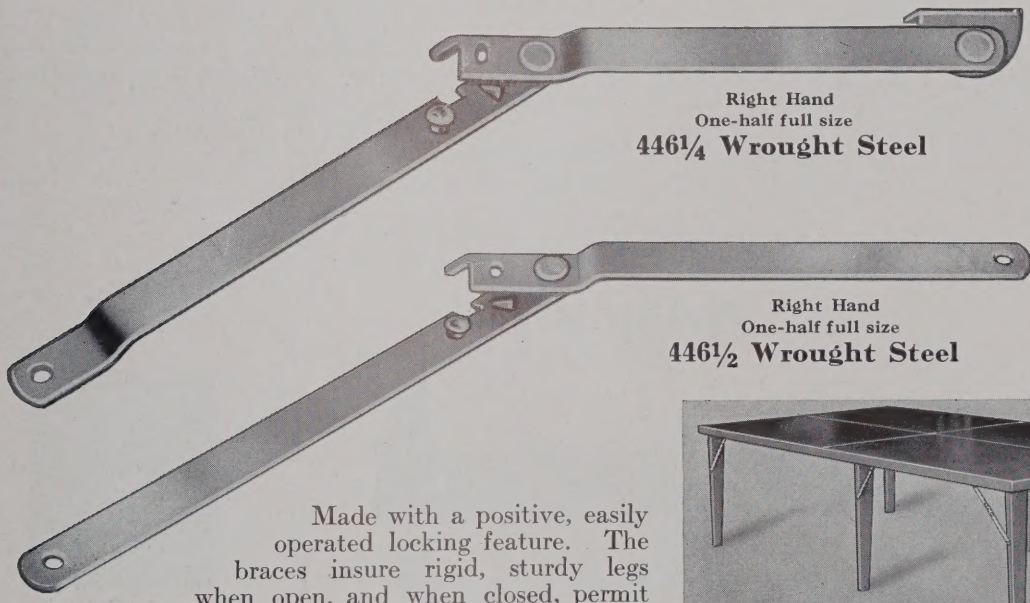
446 Wrought Steel

For banquet tables, folding counters, folding wall racks, roadside stands, etc. Made with a positive, easily operated locking feature. When folded, the legs lie flat against the table.



(RH) Applied (LH)
Legs equipped with hinges 814½–2″

For Ping-Pong Tables



Right Hand
One-half full size
446¼ Wrought Steel

Right Hand
One-half full size
446½ Wrought Steel

Made with a positive, easily operated locking feature. The braces insure rigid, sturdy legs when open, and when closed, permit the legs to be folded flat against the table. 446½ is made without a base, for tables with reinforcing rails along the edges.

446¼-446½ Applied
Table Top hinged with 311–1½″ continuous hinge, Legs with 814½–2″

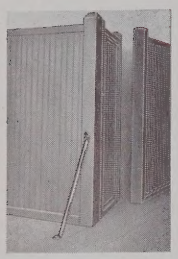
Number	Length Overall (Inches)	Width (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
446	16⅜	1¼	.187	1 x 12 FH	44½
446¼	13½	⅝	.125	¾ x 10 RH (Arm) ¾ x 7 FH (Base)	9¾
446½	13¼	⅝	.125	¾ x 10 RH	8½

446—two pairs in a box; 446¼, 446½—six pairs in a box; all one-half right hand with wood screws.

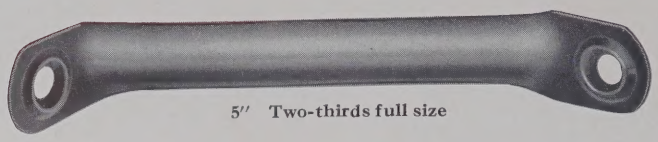
Furnished in Cadmium finish

Specify Class Number

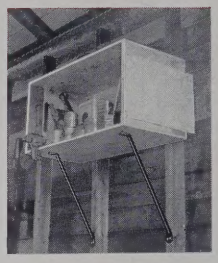
Angle Braces



24″ Applied



5″ Two-thirds full size



24″ Applied

1272 Wrought Steel

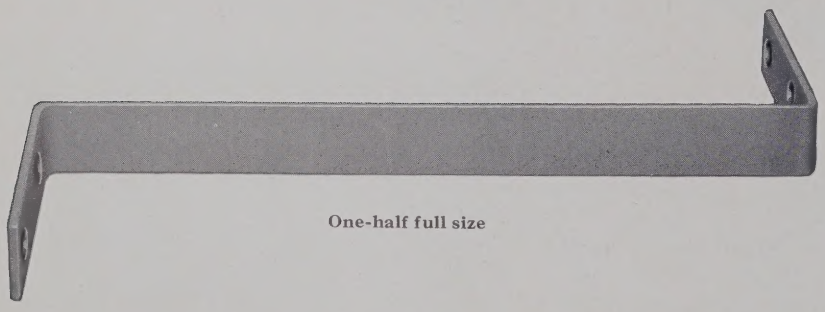
Sizes larger than 5″ are recommended for supporting railing posts, work benches, legs of picnic tables, benches, attaching boxes to walls, etc. Ends can be easily bent to suit various angles required. The strong V-shape construction of the steel adds materially to the strength.

Size, Length (Inches)	Width at Ends (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per 1000 (Lbs.)
5	¾	.047	1 x 8	54
18	1⅝	.095	1½ x 12	455
24	1⅝	.095	1½ x 12	1060
30	1⅝	.095	1½ x 12	1325

5″ packed bulk; larger sizes wrapped in paper, six in a bundle; all without screws. Furnished in Japanned finish.

Specify Class Number and Size

Trellis Brace



One-half full size

Applied

1984 Wrought Steel

For attaching trellises to residences or garages.

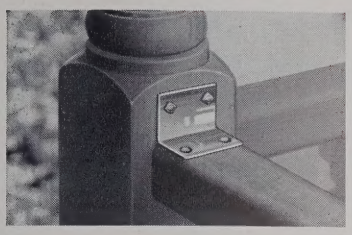
Size, (Inches)	Width (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
8 x 3	13/16	.123	1 x 9	5

One dozen in a box without screws. Furnished in Plain Steel (PS) or Cadmium (K) finish.

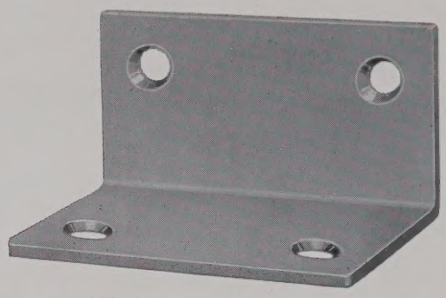
Specify Class Number and Finish

Wide Corner Braces

"Safety Irons" for Veranda Railings



Application of 3½"
Recommended for veranda railings



3½" One-half full size

1986 Wrought Steel

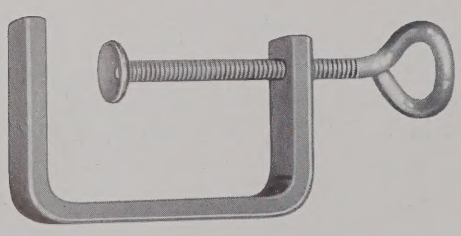
For bracing railings, posts, partitions, etc. Also especially adapted to heavy work where a regular corner iron is not strong enough.

Size, Width (Inches)	Length of Sides (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
1½	1½	.125	1 x 10	1¾
2	1½	.125	1 x 10	2⅜
2½	1½	.125	1 x 12	2¾
3½	2	.125	1¼ x 14	5¾

One dozen in a box without screws. Furnished in Plain Steel (PS) or Cadmium (K) finish.

Specify Class Number, Finish and Size

Handy Clamp



One-half full size

7097 Wrought Steel

For quilting frames and for various household repair jobs, especially where objects are being glued together.

Size (Inches)	Width of Jaw Opening (Inches)	Gauge of Metal	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
3 x 2 x ⅝	2¼	¼	4	12	50

One dozen in a box. Furnished in Cadmium finish.

Specify Class Number

Shelf and Sink Brackets

Extra Heavy

With Corrugated Brace

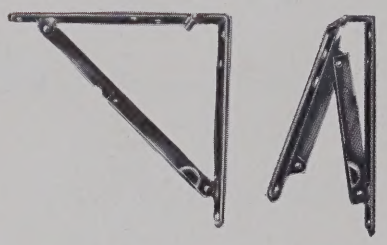
One-eighth full size

Wrought Steel

Sc790 Japanned with wood screws

Folding

With Embossed Plate



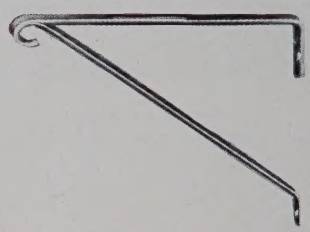
Open Partly closed

8″ x 8″ One-eighth full size

Wrought Steel

794 Japanned without screws

For Sinks



11″ x 14″ One-eighth full size

Wrought Steel

797½ J Japanned without screws
797½ K Cadmium Plated with wood screws

Sc790. The wall and shelf plates are made of two pieces of angle steel riveted together. The cross brace is corrugated and fastened to the plates at four points. These features combine to make an exceptionally strong bracket.

794. For shelves in pantries or kitchens or on counters in booths, where a shelf is desired that can be dropped out of the way when not in use. Locks automatically when open.

797½. The U-shaped construction of the steel adds materially to the strength. For convenience in installing the piping, the brace can be detached without removing the bracket from the wall. 11″ x 14″ has slots 5/16″ x 4″ and is for sinks 14″ x 18″. 12″ x 17″ has slots 5/16″ x 4¾″ and is for sinks 18″ x 20″.

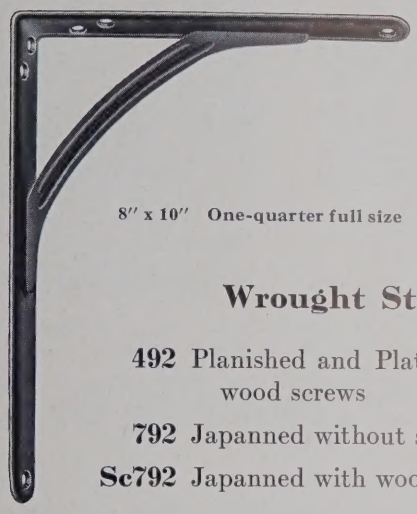
Number	Size (Inches)	Quantity and Size of Wood Screws		Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
		Shelf Plate	Wall Plate			
Sc790	16 x 18	4- 1 x 12	4-1½ x 12	82	..	..
794	**8** x **8**	3- ¾ x 7	3-1¼ x 7	14¾	5	76
	12 x **12**	3- ¾ x 8	3-1¼ x 8	29½	2	61
	16 x **16**	3- ¾ x 9	3-1¼ x 9	46½	1	48
797½	**11** x **14**	.....	3-1½ x 10	29½	2	61
	12 x **17**	.....	3-1½ x 10	34½	2	71

Sc790—one pair in a package with wood screws. 794—one-twelfth dozen pairs in a box without screws. 797½ J and K—one-quarter dozen pairs in a box; 797½J—without screws, 797½K—with wood screws.

Specify Class Number and (Size except on Sc790)

Shelf Brackets

Corrugated Brace and Embossed Plate



8″ x 10″ One-quarter full size

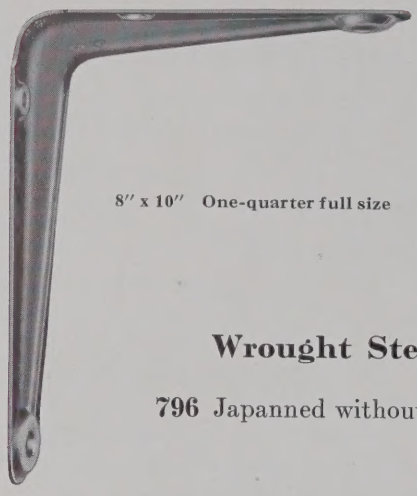
Wrought Steel

492 Planished and Plated with wood screws

792 Japanned without screws

Sc792 Japanned with wood screws

One-Piece Bracket



8″ x 10″ One-quarter full size

Wrought Steel

796 Japanned without screws

792. This type has been the standard for nearly half a century. The gauges of steel used for the various sizes have been carefully studied to give maximum strength. The corrugation of the cross brace and embossing of the plate give added strength without increasing the weight. The screw holes are located so as to give the greatest holding power to the screws and still allow them to be easily inserted with a screw driver. 16″ x 18″ has a slot for sink bolts.

796. Made of one piece of steel. The forming of the metal provides strength. There is free access to the screw holes in putting up the bracket. The design permits the use of the full space between shelves built in tiers.

The First Measurement is the Shelf Size

792, Etc.

Size (Inches)	Quantity and Size of Wood Screws		Average Net Weight Per Dozen Pairs (Lbs.)		Dozen Pairs in a Case	Average Case Weight (Lbs.)
	Shelf Plate	Wall Plate	792	Sc792 492	792	
3 x 4	3-5/8 x 5	3- 3/4 x 6	3	3¼	18	56
4 x 5	3-3/4 x 7	3-1¼ x 7	5	5¼	15	77
5 x 6	3-3/4 x 7	3-1¼ x 7	6½	7	12	79
5 x 7	3-3/4 x 7	3-1¼ x 7	6¾	7¼	10	69
6 x 8	3-3/4 x 7	3-1¼ x 7	8¼	9	8	68
7 x 9	3-3/4 x 7	3-1¼ x 7	10¼	11	5	53
8 x 10	3-3/4 x 8	3-1¼ x 8	12½	13½	5	64
10 x 12	3-3/4 x 9	3-1¼ x 9	20½	21½	3½	64
12 x 14	3-3/4 x 10	3-1¼ x 10	29	31	2	59
***16 x 18**	4-1 x 10	4-1½ x 10	46	48	1	48

796

Size (Inches)	Quantity and Size of Wood Screws		Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
	Shelf Plate	Wall Plate			
3 x 4	3-3/4 x 6	3- 3/4 x 6	2¼	18	41
4 x 5	3-3/4 x 6	3-1¼ x 6	2⅞	15	45
5 x 6	3 3/4 x 6	3-1¼ x 6	4	12	50
5 x 7	3-3/4 x 6	3-1¼ x 6	4½	10	47
6 x 8	3-3/4 x 6	3-1¼ x 6	7⅜	8	61
7 x 9	3-3/4 x 7	3-1¼ x 7	12	5	61
8 x 10	3-3/4 x 7	3-1¼ x 7	14	5	72
10 x 12	3-3/4 x 7	3-1¼ x 7	17½	3½	63
12 x 14	3-3/4 x 8	3-1¼ x 8	24½	2	51

3″ x 4″ and 4″ x 5″ one dozen pairs in a box; 5″ x 6″ to 7″ x 9″ one-half dozen pairs; 8″ x 10″ to 12″ x 14″ one-quarter dozen pairs; 16″ x 18″ one-twelfth dozen pairs; 492 and Sc792 with wood screws; 792 and 796 without screws.

*492 not furnished in size 16″ x 18″.

Finishes described on page 25

Specify Class Number (Finish on 492) and Size

Closet Bars

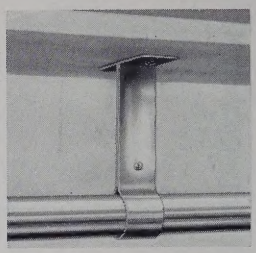
Adjustable

18″ One-quarter full size

Applied

7020 Wrought Steel

7021 Wrought Brass



Center support (Applied)

The bar consists of two tubes, one of which telescopes the other, giving a wide range of adjustment. The outside tube is one inch in diameter. A rosette with three screw holes is securely fastened to each end.

The outside tubing of 7021 is made of seamless brass.

Furnished in four lengths, 18″, 30″, 48″ and 72″. Special lengths on order.

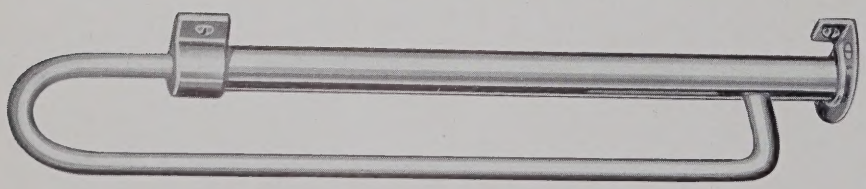
The center support is recommended for use with the 72″ bar. Permits bar to be safely extended to 120″. Made 3″ overall, width 1″, providing a clearance of 2″ between shelf and bar.

Size, Length (Inches)	Limit of Adjustment (Inches)	Diameter of Rosettes (Inches)	Gauge of Metal	Size of RH Wood Screws	Average Net Weight Per Dozen (Lbs.)		Dozen in a Case	Average Case Weight (Lbs.)	
					7020	7021		7020	7021
18	30	2⅛	.035	¾ x 7	13½	15	½	8	9
30	48	2⅛	.035	¾ x 7	21	24	½	13	14
48	72	2⅛	.042	¾ x 7	37	41	½	22	24
72	96	2⅛	.042	¾ x 7	55½	62	½	29	32

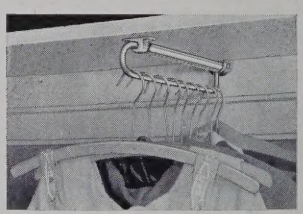
One in a box with wood screws. Furnished in Nickel (N), Chromium (CM) or Dull Cadmium (KD) finish.

Specify Class Number, Finish and Size

Extension Garment Carrier



One-third full size



Applied

7123 Wrought Steel

Operates easily and noiselessly. A slight pull on the rod brings the garments forward, making selection very easy. Applied to the underside of the shelf.

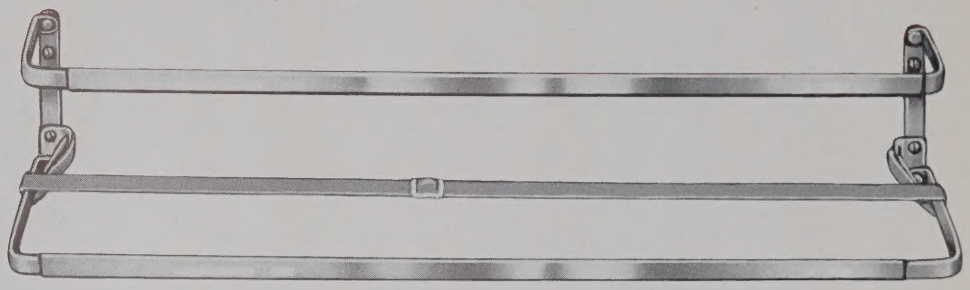
Length Top Part (Inches)	Inside Length of Carrier Rod (Inches)	Diameter of Rod (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
10⅜	10½	⅜	¾ x 8	13	1	14

One in a box with wood screws. Furnished in Dull Cadmium finish.

Specify Class Number

Shoe Rack
Adjustable

Applied



One-quarter full size

7122 Wrought Steel

Easily applied to wall, door or baseboard. Keeps shoes off the floor, always in pairs, and in neat, orderly arrangement. Equipped with an adjustable elastic webbing which prevents shoes from falling off when rack is attached to the door. Webbing furnished separately for application to old style racks which lack this feature.

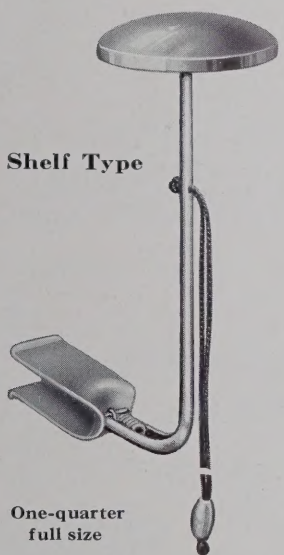
Length Overall (Inches)	Limit of Adjustment (Inches)	Size of RH Wood Screws	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
20	28	¾ x 8	14	1	15

One in a box with wood screws. Furnished in Dull Cadmium finish.

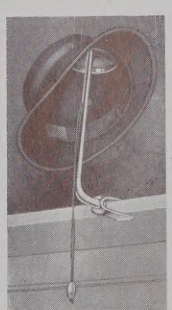
Specify Class Number

Hat Holders

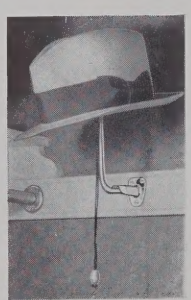
Shelf Type



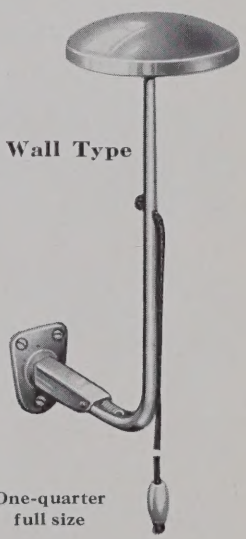
One-quarter full size



Applications



Wall Type



One-quarter full size

7121 Wrought Steel

For shelves ¾" to ⅞" in thickness.

7121½ Wrought Steel

Applied on shelf or wall, up out of the way. A pull on the cord brings arm down within easy reach, then spring returns it to vertical position. The round top keeps hats in perfect shape and the roughened surface prevents them from slipping.

Height (Inches)	Diameter of Top (Inches)	Size of OH Wood Screws 7121½	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
9	3½	⅞ x 8	6	1	7

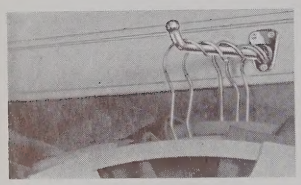
One-sixth dozen in a box; 7121½—with wood screws. Furnished in Dull Cadmium finish.

Specify Class Number

Garment Hook

One-quarter full size

7124 Wrought Steel



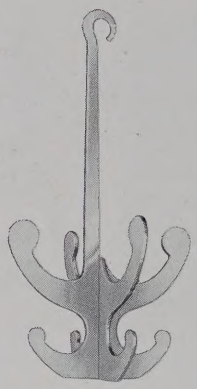
Applied

For closets where the arrangement does not permit the use of a closet bar or garment carrier. Holds several garments, with ample space between to prevent crowding.

Length (Inches)	Base (Inches)	Diameter of Rod (Inches)	Size of OH Wood Screws	Average Net Weight Per Dozen (Lbs.)
7½	2 x 1½	7/16	⅞ x 8	6

One-half dozen in a box with wood screws.
Furnished in Dull Cadmium finish.

Overhead Clothes Hook



One-quarter full size

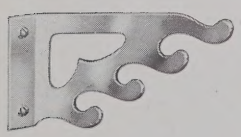
7011 Wrought Steel

Designed primarily for use in trailers but is ideally suited for living quarters where space is limited, such as cabins, camps, boats, tents, private bath houses, etc. Made in two parts, which can be quickly unassembled to carry flat.

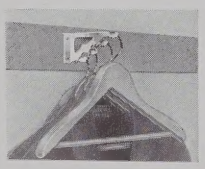
Length (Inches)	Projection (Inches)	Gauge of Metal	Average Net Weight Per Dozen (Lbs.)
7½	4	.093	3¾

One in an envelope (one dozen in a box) with screw eyes. Furnished in Cadmium finish.

Clothes Hanger Hook



One-quarter full size



Applied

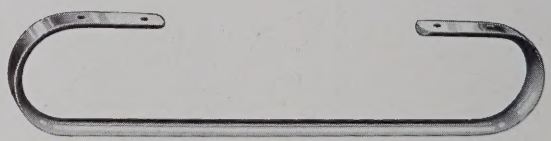
7013 Wrought Steel

Will hold four garments, any of which can be removed without disturbing the others.

Base (Inches)	Projection (Inches)	Gauge of Metal	Size of RH Wood Screws	Average Net Weight Per Dozen (Lbs.)
2⅜ x ¾	5⅜	.070	¾ x 8	2

One dozen in a box with wood screws.
Furnished in Cadmium (K) or Nickel (N) finish.

Clothes Hanger Bracket

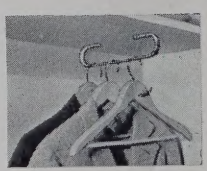


One-quarter full size

7023 Wrought Steel

Applied to the underside of the shelf, occupying only a small amount of space.

Also recommended for use as a tie rack.



Applied

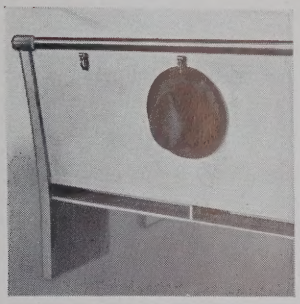
Length (Inches)	Rod Half Oval (Inches)	Size of OH Wood Screws	Average Net Weight Per Dozen (Lbs.)
11⅛	⅝	¾ x 8	6

One-half dozen in a box with wood screws.
Furnished in Nickel finish.

Specify Class Number and (Finish on 7013)

Hat Holder

"Sure Grip"



Applied

Two-thirds full size

205 Wrought Steel

For holding hats in churches, etc. The rubber roller insures a minimum of noise in operation.

The large opening allows ample room for all kinds of hats. Projecting parts are rounded, making it impossible to catch clothing. The screws are located at the side providing ease in application.

Also adapted to holding papers, etc., on the wall; for holding towels in kitchen; for holding newspapers on the porch; for patients' charts in hospitals; for hotel guest room doors to hold cards, etc.

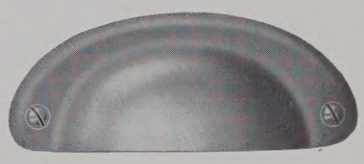
Size (Inches)	Size of RH Wood Screws	Average Net Weight Per Dozen (Lbs.)
2 3/8 x 1	5/8 x 5	1 1/8

One dozen in a box with wood screws. Furnished in Brown Lacquer or Plated finishes.

Drawer Pulls

461 Wrought Steel

462 Wrought Steel



470 Wrought Steel

Illustrations one-half full size

For other drawer pulls, see page 90.

Number	Size (Inches)	Size of Wood Screws	Average Net Weight Per Gross (Lbs.)	Gross in a Case	Average Case Weight (Lbs.)
461—No. 1	3 5/8 x 1 3/16	5/8 x 6 RH	7	5	36
No. 2	4 x 1 3/16	5/8 x 6 RH	9	5	47
462	3 7/16 x 1 1/2	5/8 x 6 RH	8	5	42
470	3 11/16 x 1 7/16	5/8 x 6 OH	10 1/2	5	54

One-quarter gross in a box with wood screws.

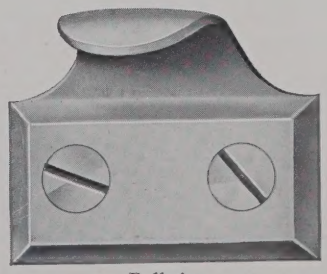
Sash Lifts

485 Wrought Brass
486 Wrought Steel

For screen lifts, see page 180.

Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross (Lbs.)
1 5/8 x 13/16	3/4 x 8	6

One-quarter gross in a box with wood screws.



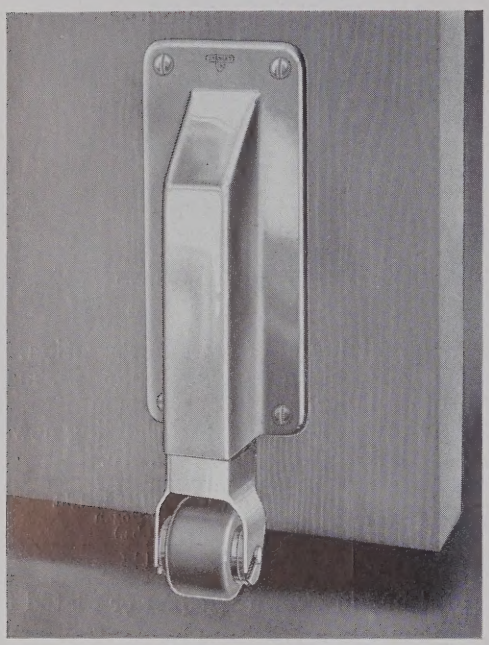
Full size

Finishes described on page 25

Specify Class Number, Finish and (Size on 461)

Roller Door Holders

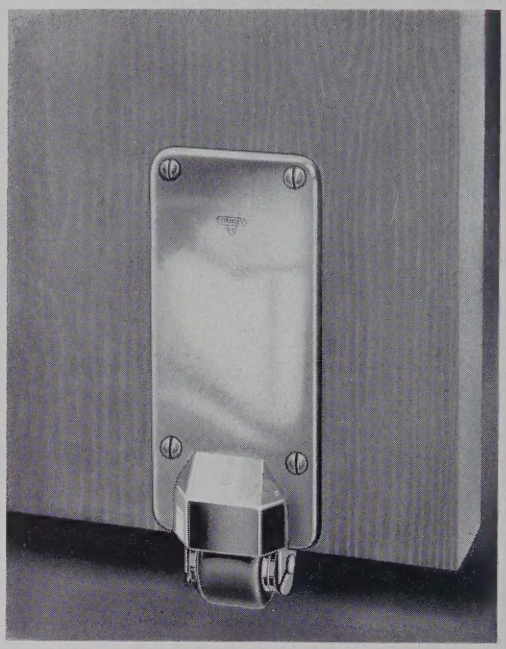
Surface Type



Applied

One-third full size

Mortise Type



Applied

Wrought Bronze
Polished and Highly Finished
443 Template
453 Non-Template

Wrought Bronze
Polished and Highly Finished
444 Template
454 Non-Template

For doors in hospitals, schools and institutions wherever silence is essential. Holds the door open in any position and prevents slamming. Provides a slight but non-varying resistance to movement of doors.

Made of wrought bronze or brass, according to finish.

Rubber rollers are easily replaced;—on 443, 453 they can be replaced without removing the holder from the door.

The surface type is especially suitable for doors already in use, lacking means of door control.

Plunger can be held in the retracted position by the insertion of a pin in the small hole in the face plate or case.

For rubber bumpers, see page 80.

Plate (Inches)	Width of Roller (Inches)	Throw (Inches)	Size of OH Machine Screws	Size of OH Wood Screws	Average Net Weight Per 100 (Lbs.)
			Template	Non-Template	
6⅛ x 2⅝	1	1	½ x 10-24	1 x 9	145

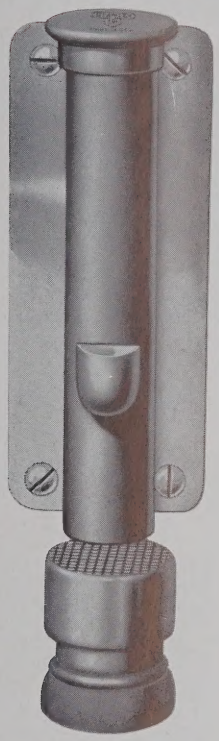
Three in a box with screws.

Finishes described on page 25.

Specify Class Number and Finish

Door Holders

Plunger Type



Lever Type

One-half full size

Wrought Steel
456 Planished and Plated

Wrought Bronze or Brass
457 Finely Finished

Wrought Steel
458 Planished and Plated

Wrought Bronze or Brass
459 Finely Finished

For doors of any weight. Will hold doors open whether or not equipped with a door closer, on any kind of floor—wood, tile, concrete, linoleum—and even on a slanting or uneven floor.

The soft rubber tip is made with concentric rings which give the holders great gripping power. It is easily replaced.

456, 457. A spring in the plunger base makes possible the securing of added pressure against the floor. A slight pressure of the foot on the base of the plunger sets the rubber firmly against the floor and a slight pressure on the trip releases the holder allowing the door to swing free.

The case is fitted with a rubber bumper, insuring silent operation when the plunger is released.

458, 459 operate on the lever principle. A stainless steel bullet catch in the arm holds it up out of the way when not in use.

456, 457

Plate (Inches)	Length Overall (Inches)	Maximum Throw (Inches)	Size of OH Wood Screws	Average Net Weight Per Dozen (Lbs.)	
				456	457
5 x 2	6⅝	1¼	1 x 8	12⅝	13

One-quarter dozen in a box with wood screws.

458, 459

Length (Inches)	Size of OH Wood Screws	Average Net Weight Per Dozen (Lbs.)	
		458	459
5	1 x 8	5	5⅞

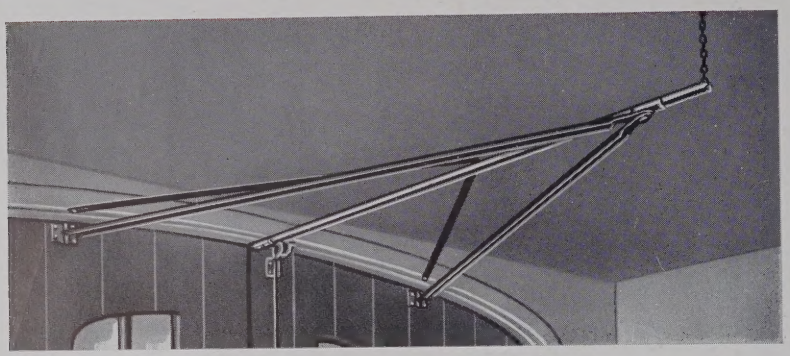
One-half dozen in a box with wood screws.

Finishes described on page 25

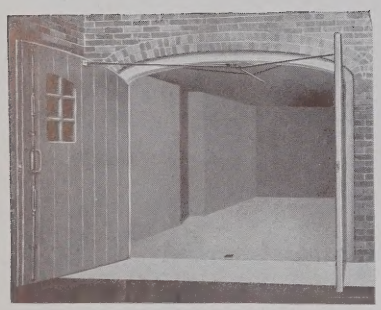
Specify Class Number and Finish

Garage Door Holder

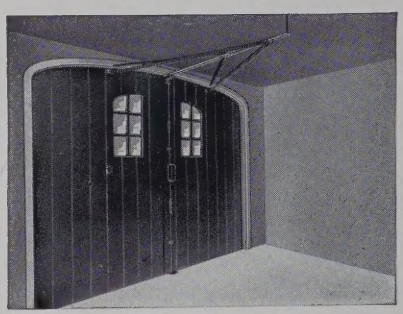
"Two-in-One"



Applied



Applied
Doors in open position



Applied
Doors in closed position

1790 Wrought Steel

For square or curved top doors, but is especially suitable for curved top doors. Braces and chain hold it in position.

Furnished in standard size for pairs of doors having an 8′ opening. Furnished on order for pairs of doors of greater width.

The action of the holders operates both doors at the same time, making it easy to open and close the doors. As both doors operate together, wind pressure is equalized and doors will not blow open or shut.

Easily applied to old or new doors.

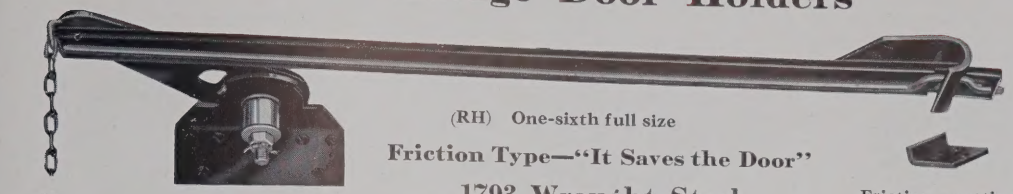
As a means of locking both doors, we recommend the use of the "Kee-Bolt" (page 119) or the Cylinder Locking Bolt 1001 (page 215).

One in a corrugated container, with wood screws. Weight, 25 lbs.

Furnished in Japanned (J), Dead Black (J1) or (KJ1) finish

Specify Class Number and Finish

Garage Door Holders

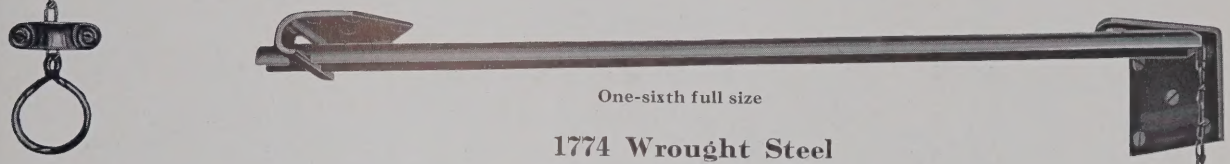


(RH) One-sixth full size

Friction Type—"It Saves the Door"

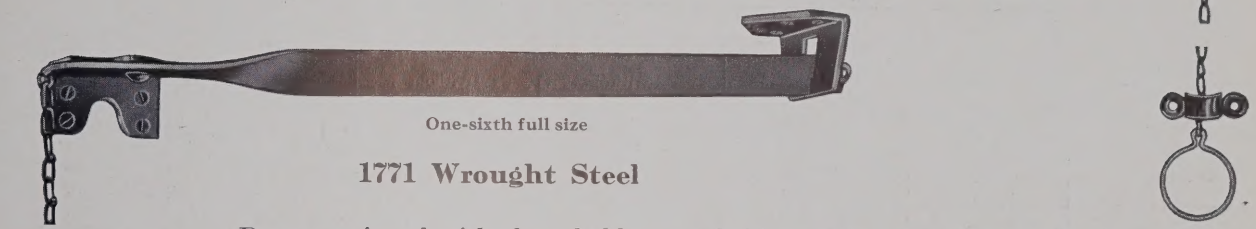
1793 Wrought Steel

Friction resetting plate



One-sixth full size

1774 Wrought Steel



One-sixth full size

1771 Wrought Steel

Doors equipped with these holders are held open by the action of the bar, which is attached to the door, engaging with the catch plate attached to the top of the door casing. By a slight pull on the chain the holder is released.

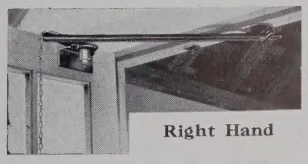
Can be used on curved top doors by blocking down from the head jamb.

The jamb plate is made of extra heavy wrought steel and is so designed as to prevent breakage.

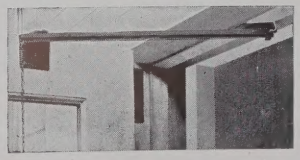
1793. An effective friction device checks the momentum of the door as it reaches the full open position, relieving shock on the door, jamb and hinges. Doors will stand open positively, even in a gale of wind but are released by a mere finger touch on the chain. An adjustment feature makes it possible to increase or decrease the friction. By means of a simple device, friction is automatically reset each time the doors are closed. The arm is 30″ long and is made of heavy wrought steel of U-shaped construction. The chain is 38″ long. Minimum width of door on which holder can be used is 3′ 9″. When ordered singly specify hand.

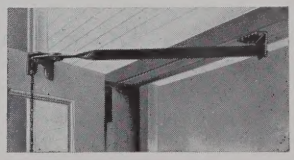
1774. The arm is 30″ long and is made of heavy wrought steel of strong U-shaped construction. The chain is 38″ long. Minimum width of door on which holder can be used is 3′ 6½″. Reversible for right or left hand doors.

1771. The arm is 29½″ long, chain 38″ long. Minimum width of door on which holder can be used is 3′ 2″. Reversible for right or left hand doors.



Right Hand





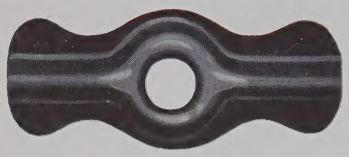
Number	Size of Wood Screws		Average Net Weight Per Pair (Lbs.)	Pairs in a Case	Average Case Weight (Lbs.)
	Holder	Chain Guide			
1771	1¾ x 12	¾ x 8	8	6	50
1774	1¾ x 12	¾ x 8	11	6	68
1793	1¾ x 12	¾ x 8	17	1	18

1771—one pair in a box; 1774—one pair wrapped in paper; 1793—one pair (one-half right hand) in a corrugated carton; with wood screws.

Furnished in Japanned (J), Dead Black (J1) or (KJ1) finish

Specify Class Number and Finish

Door Buttons



1¾" Full size

3/16" Offset

Full size

Full size

Wrought Steel
4 Without screws
Sc4 With wood screws

Wrought Steel
4½ Without screws
Sc4½ With wood screws

Wrought Steel
5 Without screws
Sc5 With wood screws

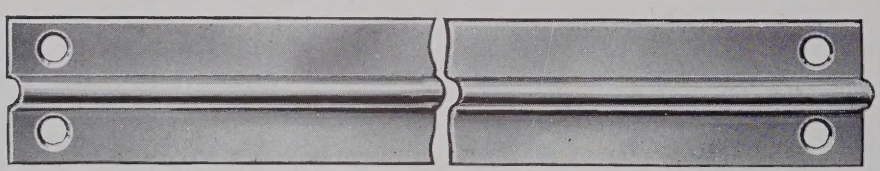
Number	Size, Length (Inches)	Size of Wood Screws	Average Net Weight Per Gross (Lbs.)		Gross in a Case	Average Case Weight (Lbs.)
			With Screws	Without Screws	No. 4	
4–Sc4	**1¼**	¾ x 6	1⅜	1	..	..
	1½	1 x 8	2⅜	1¾	..	..
	1¾	1 x 8	2⅝	1⅞	25	45
	2	1 x 8	3⅛	2½	..	..
	2½	1 x 9	5¼	4⅜	..	..
4½–Sc4½	1¾	1 x 8	2⅝	1⅞	..	..
5–Sc5	1¼	1 x 8	2¼	1⅜	..	..

2" and smaller one gross in a carton; 2½" one-half gross; 4, 4½ and 5 without screws; Sc4, Sc4½ and Sc5 with wood screws.

Furnished in Japanned (J) or Cadmium (K) finish.

Specify Class Number, Finish and (Size on **4-*Sc4***)

Sliding Door Rail



491 Wrought Steel
Without Screws

Size, Length — 3′, 4′, 5′, 6′, 8′ and 10′

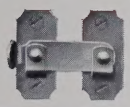
Width—¾"
Height of Groove—3/16"
Gauge of Metal—.032
Countersunk for No. 4 Screw

Weight, per 100 feet—10½ lbs.

Twelve pieces in a bundle, wrapped in paper, without screws.
Furnished in Plain Steel (PS) or Brass (C) finish.

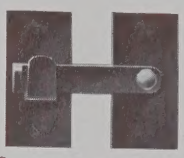
Specify Class Number, Finish and Size

Shutter Bars



2″ One-quarter full size

Wrought Steel
450 Planished and Plated

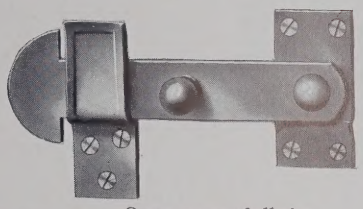


One-quarter full size

Wrought Steel
1122 Japanned

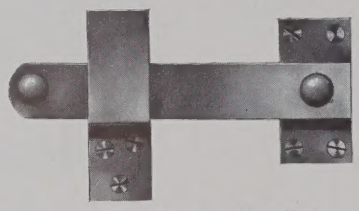
One-quarter full size

Wrought Steel
1124 Japanned



One-quarter full size

Wrought Steel
1120J Japanned
1120K Cadmium Plated



5″ One-quarter full size

Wrought Steel
1125J Japanned
1125K Cadmium Plated

Number	Bar (Inches)	Plate (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
450	**1¾ x ½**	1 ½ x ⅝	⅝ x 5	¾
	2 x ⅝	1 15/16 x ⅞	¾ x 7	1½
1122	2½ x ½	2 ⅝ x 1¼	¾ x 7	3¼
1124	3 x ½	2 ⅝ x 1¼	¾ x 7	3⅝

One dozen in a box with wood screws.

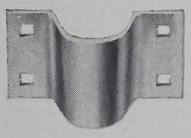
Number	Bar (Inches)	Swivel Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
1120	6¾ x 1⅛	3 x 1½	3½ x 1½	1 x 8	11⅛
1125	**5 x 1⅛**	3 x 1½	3½ x 1¼	1 x 8	9⅛
	7 x 1⅛	3 x 1½	4 x 1¼	1 x 8	10⅝

One-half dozen in a box with wood screws.

Finishes described on page 25

Specify Class Number (Finish on **450***) and Size*

Stake Holders



No. 3 One-sixth full size

Wrought Steel
993 Plain Steel

One-sixth full size

Wrought Steel
993½ Plain Steel

Number	For Stakes (Inches)	Length Overall (Inches)	Width (Inches)	Number of Holes in Each	Gauge of Metal	Average Net Weight Per 100 Pieces (Lbs.)
993–No. 1	1½	4⅝	2½	2	.169	77
No. 2	1¾	4¾	2½	2	.169	89
No. 3	2	5	2⅝	4	.180	90
No. 4	2	5½	3¾	4	.180	158
993½	1¾ x 3	7	2½	4	.203	130

Packed bulk.

Bar Holders

1½″ One-sixth full size

Wrought Steel
1230 Plain Steel
1230J Japanned

Size, Width (Inches)	For Bars (Inches)	Length of Sides (Inches)	Gauge of Metal	Average Net Weight Per 100 Pieces (Lbs.)
1¼	2	2½	.250	54
1½	2	2½	.250	66
1¾	2	2½	.250	81
2	2	2½	.250	96

Packed bulk.

Specify Class Number and Size

Chest Handles

A strong, heavy duty handle.

Large roomy bail allows a comfortable grip.

Screws can be driven without raising the bail.

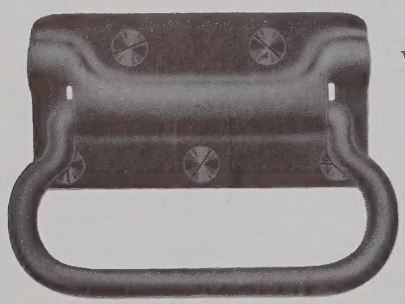
Vertical corrugations reinforce the stop.

No. 4¾ One-half full size

1205 Wrought Steel

Size	Plate (Inches)	Width of Bail Inside (Inches)	Gauge of Metal	Wire (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)	Dozen Pairs in a Case	Average Case Weight (Lbs.)
No. 2	2 1/8 x 1 1/2	2	.055	7/32	3– 5/8 x 5	2 1/2	..	..
No. 2¾	2 11/16 x 2	2 3/4	.058	1/4	3– 3/4 x 6	4 7/8	..	..
No. 3¼	3 3/8 x 2 3/4	3 3/8	.058	5/16	4– 3/4 x 8	8 1/8	6	50
No. 3½	3 5/8 x 2 15/16	3 5/8	.065	11/32	4– 7/8 x 10	10 1/4	6	63
No. 4	4 1/16 x 3	4 1/8	.072	3/8	4– 7/8 x 10	13 1/8	5	67
No. 4¾	4 7/8 x 4 3/16	4 1/2	.083	7/16	5–1 x 12	22 3/4	3	75

No. 2—one dozen pairs in a box; Nos. 2¾ and 3¼—one-half dozen pairs; larger sizes one-quarter dozen pairs; with wood screws. Furnished in Japanned, Cadmium, Galvanized or Plated finishes.



Vertical corrugations reinforce the stop.

One-half full size

1207 Wrought Steel

For chests or boxes having a surface for applying only a narrow plate.

Plate (Inches)	Width of Bail Inside (Inches)	Gauge of Metal	Wire (Inches)	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
3 1/16 x 1 3/4	3 3/8	.074	5/16	7/8 x 8	9

One-quarter dozen pairs in a box. Furnished in Plain Steel without screws; Japanned finish with wood screws.

1214 Wrought Steel

The tubular grip is comfortable and allows ample clearance for the knuckles. Screws can be driven with the handle lying flat.

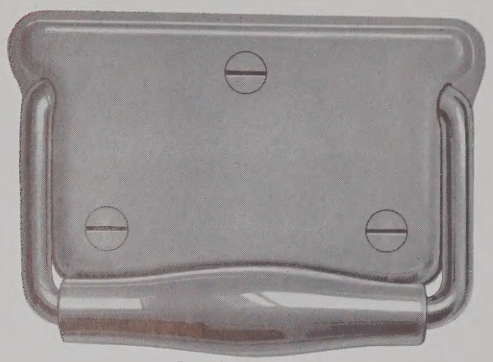
Plate (Inches)	Width of Bail Inside (Inches)	Gauge of Metal	Wire (Inches)	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
3 1/8 x 3	3 7/8	.084	5/16	7/8 x 10	16

One-quarter dozen pairs in a box with wood screws. Furnished in Japanned, Cadmium or Plated finishes.

Finishes described on page 25

Specify Class Number, Finish and (Size on **1205**)

Burial Case Handles



One-half full size

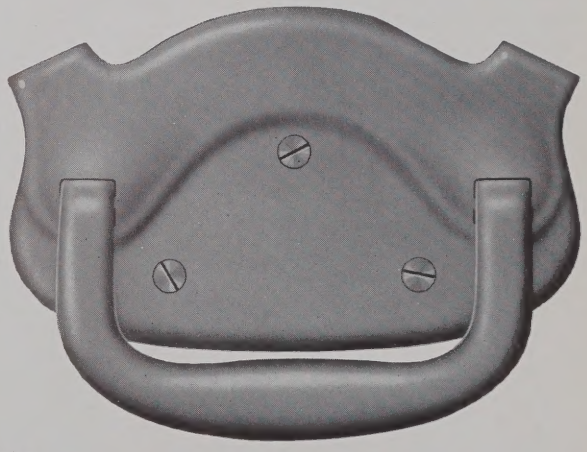
Tubular Grip

1216 Wrought Steel

The smooth finished appearance makes this handle very satisfactory for burial cases and cedar chests. The tubular grip is comfortable in the hand. The handle is formed to allow ample clearance for the knuckles. Easily applied, as all three screws can be driven with the handle lying flat.

Width of Bail Inside (Inches)	Plate (Inches)	Gauge of Metal	Wire (Inches)	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
3¾	5 x 2⅞	.062	5/16	1¼ x 11	16¼

One-quarter dozen pairs in a box with wood screws. Furnished in Japanned, Cadmium or Plated finishes.



One-half full size

1219 Wrought Steel

1219½ Wrought Steel

For burial cases and cedar chests. The handle is exceptionally strong, durable and comfortable. Formed to allow ample clearance for the knuckles. Easily applied, as all screws can be driven with the handle lying flat.

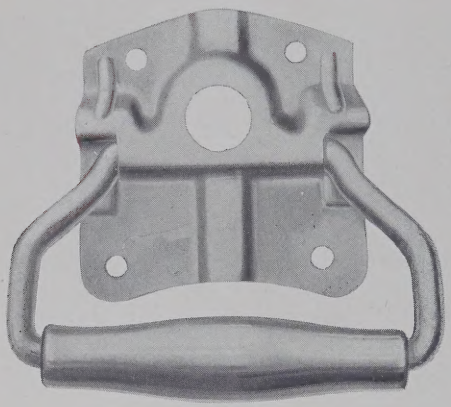
Number	Width of Bail Inside (Inches)	Plate (Inches)	Gauge of Metal (Plate)	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
1219	3⅞	5½ x 2 7/16	.042	1 x 10	10½
1219½	3⅞	6 x 3⅝	.042	1 x 10	16

One-quarter dozen pairs in a box with wood screws. Furnished in Japanned, Cadmium or Plated finishes.

Finishes described on page 25

Specify Class Number and Finish

Milk Can Handle



One-half full size

1211 Wrought Steel

With tubular grip and curved plate. The large hole in the plate is for hooks when the cans are loaded and unloaded by conveyor. The plate at the hole is raised one-half inch from the can, giving ample room for the hook. The groove in the plate clears the seam in the can. The rivet holes are countersunk on the back so that rivets may be used, which will be flush on the inside of the can. Handle is held away from the can by lugs so that it can be easily grasped.

Vertical corrugations reinforce the stop, giving the handle extra strong lifting power.

Width of Bail Inside (Inches)	Plate (Inches)	Gauge of Metal	Wire (Inches)	Hook Hole (Inches)	Rivet Hole (Inches)	Average Net Weight Per Dozen Pairs (Lbs.)
3⅞	3⅛ x 3	.087	5/16	5/8	7/32	14

Packed bulk without rivets. Furnished in Tinned finish.

Specify Class Number

Trap Door Rings

No. 1 One-half full size

1215 Wrought Steel

Sets flush with the floor eliminating danger of tripping. For trap door hinges, see page 73.

Size	Plate (Inches)	Diameter of Ring (Inches) Outside	Diameter of Ring (Inches) Inside	Gauge of Metal	Wire (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
No. 1	3 x 3½	2⅛	1½	.072	5/16	1 x 9	5⅛
No. 2	3½ x 3¾	2¼	1½	.087	3/8	1 x 10	7
No. 3	3¾ x 4¼	2⅝	1⅞	.097	7/16	1 x 10	10

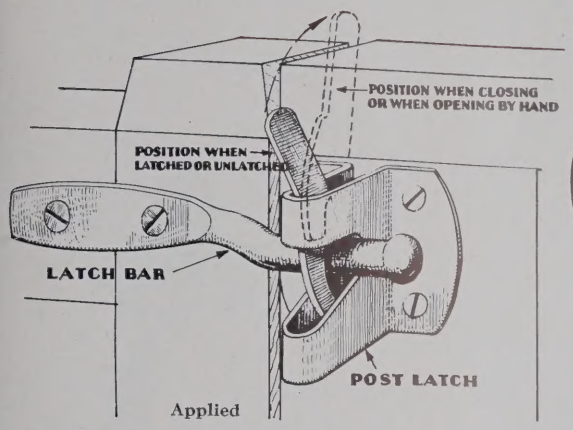
No. 1—one dozen in a box; larger sizes one-half dozen; with wood screws. Furnished in Japanned (J), Cadmium (K), Galvanized (R) or Plated finishes.

Finishes described on page 25

Specify Class Number, Finish and Size

Gate Latches

Gravity Type



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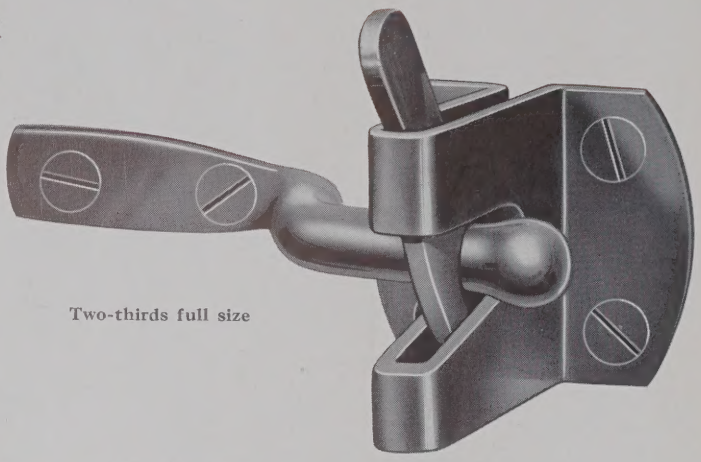
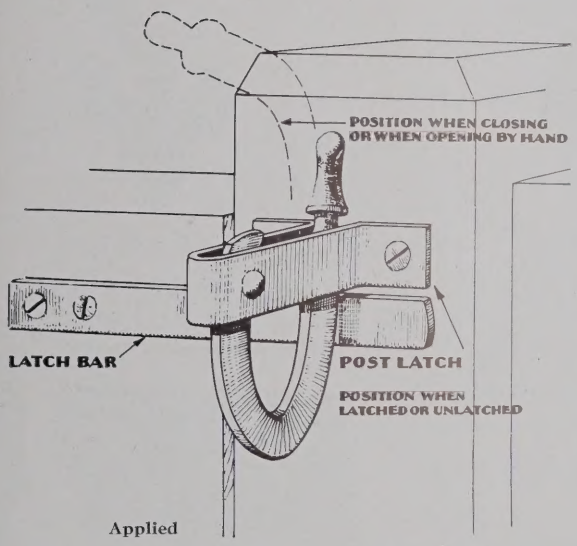


Two-thirds full size

Sc1261 Wrought Steel



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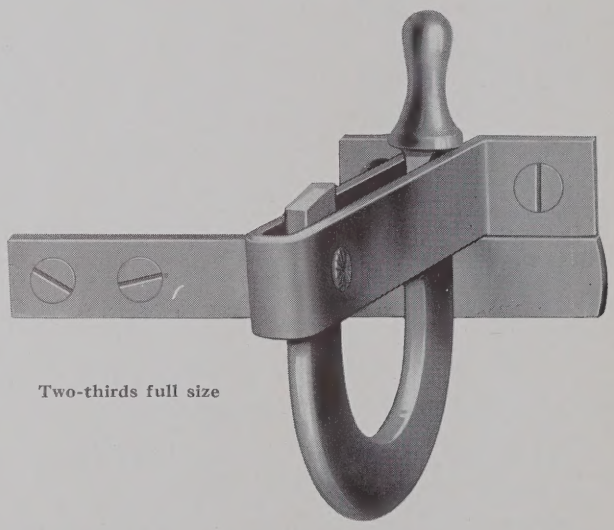


Two-thirds full size

Sc1262 Wrought Steel

For latching single acting gates. Gate and post must be flush. Self-latching and released by simply raising the trip.

Also recommended for cellar and hatchway doors.

Made of extra heavy wrought steel.

Number	Base (Inches)	Length of Latch Bar (Inches)	Projection (Inches)	Gauge of Metal (Catch)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
Sc1261	1¾ x 2	4½	2	.125	1 x 9	6
Sc1262	⅝ x 2	4¾	3⅛	.125	1 x 9	5½

One-half dozen sets in a box with wood screws. Furnished in Japanned (J) or Cadmium (K) finish.

Specify Class Number and Finish

Mortise Thumb Latches

For Garages

Hand Wrought

One-third full size

1244 Wrought Steel

One-third full size

1246 Wrought Steel

One-third full size

1247 Wrought Steel

A set consists of one handle, with thumb piece, one mortise latch and one escutcheon, comprising **Type 1**.

Adapted to doors $1\frac{5}{8}''$ to $2\frac{1}{4}''$ in thickness. For doors up to 3″ in thickness on order.

The handles are applied with pyramid head wood screws.

Type 2 furnished on order with two handles and a mortise latch.

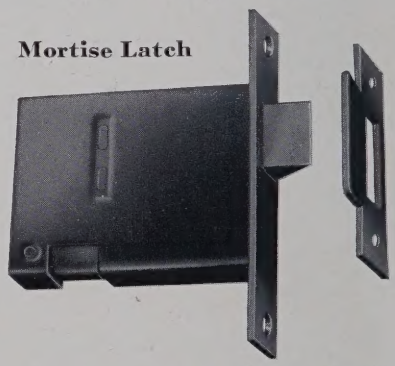
Type 3 furnished on order with one handle and a latch bar.

For door pulls to match, see page 164.

Number	Handle (Inches)	Length of Grip (Inches)	Size of Wood Screws			Average Net Weight (Type 1) (Lbs.)
			Handle	Escutcheon	Latch Front and Strike	
1244	$10\frac{5}{8}$ x $1\frac{5}{8}$	$4\frac{1}{4}$	$1\frac{1}{4}$ x 12	$\frac{1}{2}$ x 10 RH	$1\frac{1}{4}$ x 9	$2\frac{1}{8}$
1246	$11\frac{1}{2}$ x $2\frac{3}{8}$	$4\frac{1}{4}$	$1\frac{1}{4}$ x 12	$\frac{1}{2}$ x 10 RH	$1\frac{1}{4}$ x 9	$2\frac{1}{4}$
1247	$9\frac{1}{2}$ x $2\frac{1}{2}$	$4\frac{1}{4}$	$1\frac{1}{4}$ x 12	$\frac{1}{2}$ x 10 RH	$1\frac{1}{4}$ x 9	$2\frac{1}{8}$

One set in a box with wood screws.

Mortise Latch



Case: $3\frac{3}{4}''$ x $2\frac{7}{8}''$ x $\frac{7}{8}''$
Front: $5\frac{1}{8}''$ x $1\frac{1}{4}''$ flat
Hand: Reversible
Backset: $2\frac{3}{4}''$
Throw: $\frac{3}{4}''$
Strike: $1\frac{1}{4}''$ lip to center

Operation: Types 1 and 2. Latch bolt is operated by thumb piece from either side.

Furnished in Dead Black (KJ1) finish

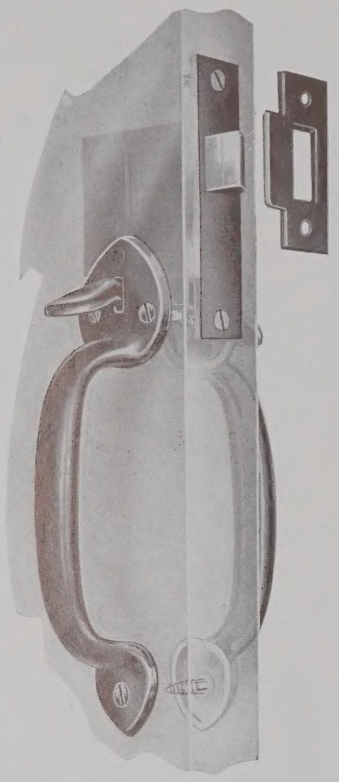
Specify Class Number and Type

Mortise Thumb Latches

For Residences and Greenhouses

No. 1

For doors 1⅜″ to 1¾″ in thickness.



No. 2 One-quarter full size

For Garages and Industrial Buildings

No. 2

For doors 1⅝″ to 2¼″ in thickness.

No. 3

For doors 2⅜″ to 3″ in thickness.

Doors of greater thickness on order.

1289 Wrought Steel
***1289½ Wrought Steel**

For residences, greenhouses, garages and industrial buildings.

All parts except the latch bolt and spring are made of wrought steel; the latch bolt is drop-forged; the spring is made of hard phosphor bronze. The handles and thumb pieces are well formed and liberal in size. The latches combine sturdy construction with graceful design.

For door pulls to match Nos. 2 and 3, see page 164.

Latch Specifications

No. 1

Case: 3 1/8″ x 2 1/16″ x 5/8″
Front: 4 1/16″ x 1″ flat
Hand: Reversible
Backset: 2¼″
Throw: ½″
Strike: 27/32″ lip to center

Nos. 2 and 3

Case: 3¼″ x 2⅞″ x ⅞″
Front: 5⅛″ x 1¼″ flat
Hand: Reversible
Backset: 2¼″
Throw: ¾″
Strike: 1¼″ lip to center for No. 2; 1⅝″ for No. 3

Operation: Latch bolt is operated by thumb piece from either side.

***1289½—Nos. 2 and 3 furnished with a 2¾″ backset.**

Size	Handle Overall (Inches)	Length of Grip (Inches)	Size of Wood Screws		Average Net Weight Per Set (Lbs.)
			Handle OH	Latch and Strike FH	
No. 1	7⅞ x 2	4⅜	1 x 9	1 x 9	1⅜
No. 2	9⅜ x 2⅜	5⅛	1¼ x 12	1¼ x 9	2½
No. 3	9⅜ x 2⅜	5⅛	1¼ x 12	1¼ x 9	2½

One set in a box with wood screws. Furnished in Japanned (KJ), Cadmium (K) or Dead Black (KJ1) finish.

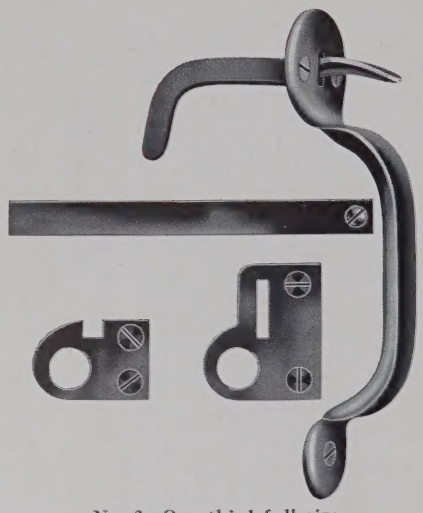
Specify Class Number, Finish and Size

When no size is specified on 1289—No. 2 will be furnished

Thumb Latches

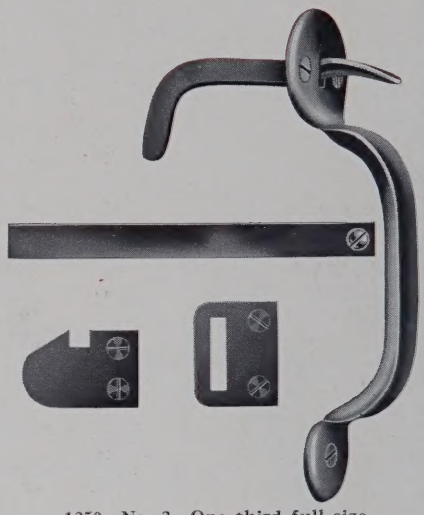
1242 One-third full size

1242 Wrought Steel
1242½ Wrought Steel with reverse bevel box strike



No. 3 One-third full size

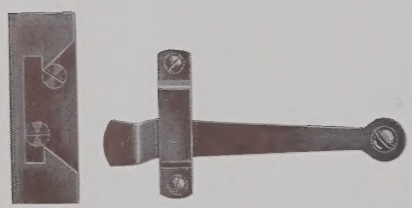
1260 Wrought Steel



1250 No. 3 One-third full size

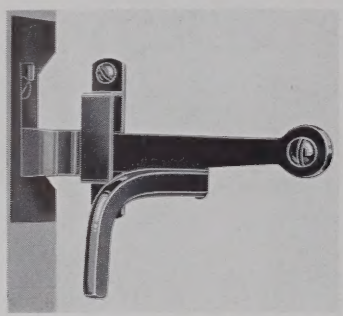
1250 Wrought Steel
1250½ No. 3 Wrought Steel with reverse bevel box strike

Latch Trim for Closet Doors

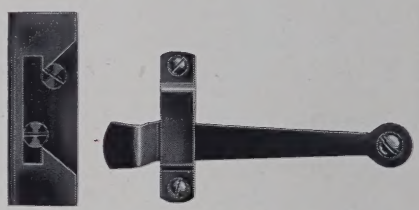


One-third full size

1242½



Applied (Inside view)
Showing typical application



One-third full size

1250½ No. 3

For doors of residences, garages, barns, etc.

The latch bar is furnished with a special flanged bushing which prevents the bar from binding regardless of how tightly the screw is driven.

Reverse bevel box strike permits application of the handle on the outside or room side of the door.

A locking stud is furnished with 1250 No. 1.

Thumb latch set for screen or storm doors, see page 186.

Number	Size	Length of Handle (Inches)	For Door Thickness (Inches)	Length of Grip (Inches)	Length of Latch Bar (Inches)	Quantity and Size of Wood Screws					Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
						Handle	Locking Stud RH	Strike and Guide	Latch Bar RH	Escutcheon RH			
1242	.....	6½	⅝ to 1¾	3⅞	4½	3– ¾x 8OH	.....	4–1 x 9	1–1 x12	2–¾x10	5	..	..
1250 *No. 1		5½	⅝ to 1¼	3¼	4	3– ⅞x 8	1–⅞x10	4– ⅞x 8	1– ⅞x10	.....	3⅝	10	38
1250 **No. 2**		6¾	⅝ to 1¾	4	4½	3– ⅞x 8	.....	4– ⅞x 8	1– ⅞x10	.....	5⅞	10	60
***1260** †**No. 3**		7½	¾ to 1⅞	4	5½	3–1 x 9	.....	4–1 x 9	1–1 x12	.....	8¾	5	45
No. 4		8⅞	1 to 2⅝	5	5½	3–1¼x12	.....	5–1¼x11	1–1¼x12	.....	17⅜	3	54

One set in a box with wood screws.

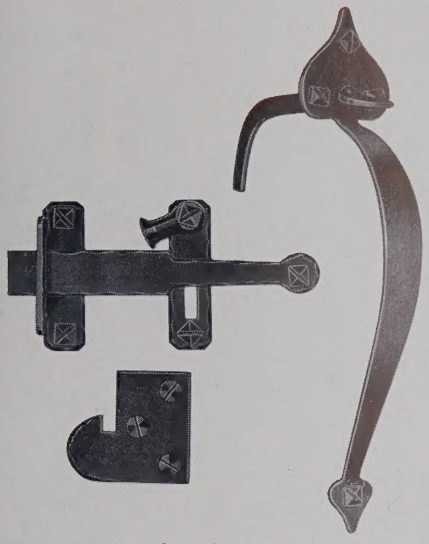
1242, 1242½—furnished in Japanned (J), Dead Black (J1) or (KJ1), and Plated finishes.
1250½—furnished in Japanned (J), Dead Black (J1) or (KJ1) finish.
1250, 1260—furnished in Japanned (J) or Cadmium (K) finish.

*1260 not made in Size No. 1.
†1250½ made only in Size No. 3.

Finishes described on page 25

Specify Class Number, Finish and (Size on **1250, 1260**)

Thumb Latches

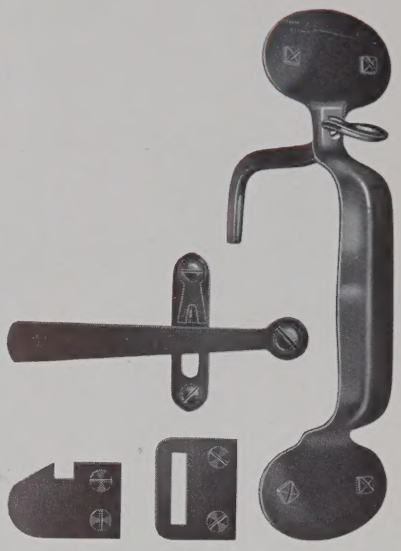


1243 One-third full size

1243 Wrought Steel
1243½ Wrought Steel with reverse bevel box strike

1248 One-third full size

1248 Wrought Steel
1248½ Wrought Steel with reverse bevel box strike



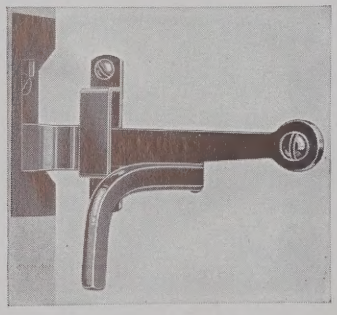
1249 One-third full size

1249 Wrought Steel
1249½ Wrought Steel with reverse bevel box strike

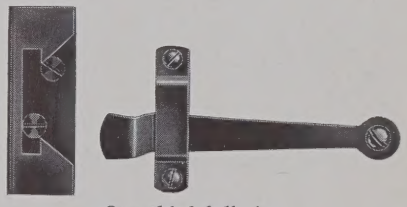
Latch Trim for Closet Doors

One-third full size

1243½



Applied (Inside view)
Showing typical application



One-third full size

1248½ and 1249½

For interior doors of residences. Adapted to doors up to 1¾″ in thickness.

The latch bar is furnished with a special flanged bushing which prevents the bar from binding regardless of how tightly the screw is driven.

Reverse bevel box strike permits application of the handle on the outside or room side of the door.

The application of handles 1243, 1249, etc., with pyramid head wood screws resembles the early method of applying with hand-made nails. The handle of 1249 and 1249½ is patterned from an original design.

Number	Length of Handle (Inches)	Length of Grip (Inches)	Length of Latch Bar (Inches)	Quantity and Size of Wood Screws					Average Net Weight Per Dozen (Lbs.)
				Handle	Locking Stud	Strike and Guide	Latch Bar	Escutcheon	
1243	8⅛	5½	4¾	4–¾ x 9PH	1–¾ x 9PH	3–⅞ x 8FH 2–½ x 9PH	1–¾ x 9 PH	1–½ x 9 PH	7¾
1248	7¼	4	4¾	3–1 x 9OH	.....	4–1 x 9FH	1–1 x 12RH	2–¾ x 10RH	7¾
1249	8⅜	4	4¾	4–1 x 8PH	.....	4–1 x 9FH	1–1 x 12RH	2–¾ x 10RH	8⅛

One set in a box with wood screws.

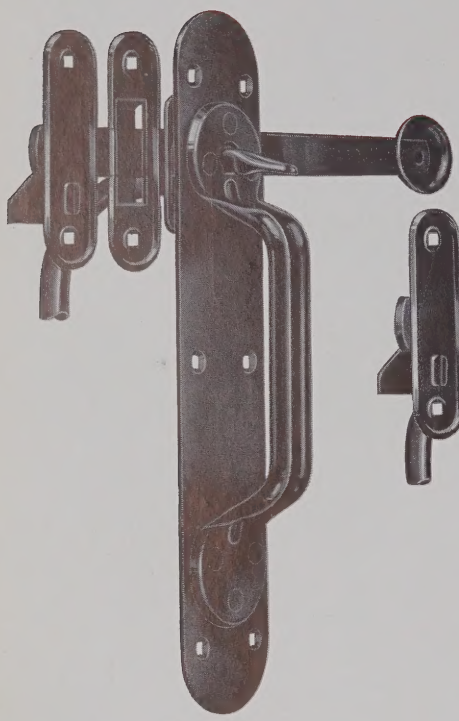
1243, 1243½—furnished in Wrought Iron finish, WDB or WYE.
1248, 1248½, 1249, 1249½—furnished in Dead Black (J1) or (KJ1) finish.

Finishes described on page 25

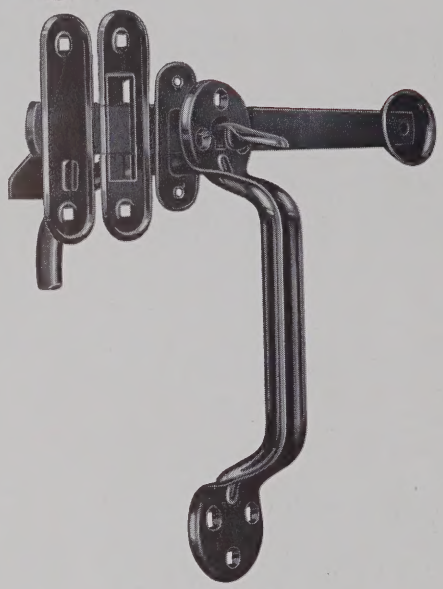
Specify Class Number and Finish

Extra Heavy Thumb Latches

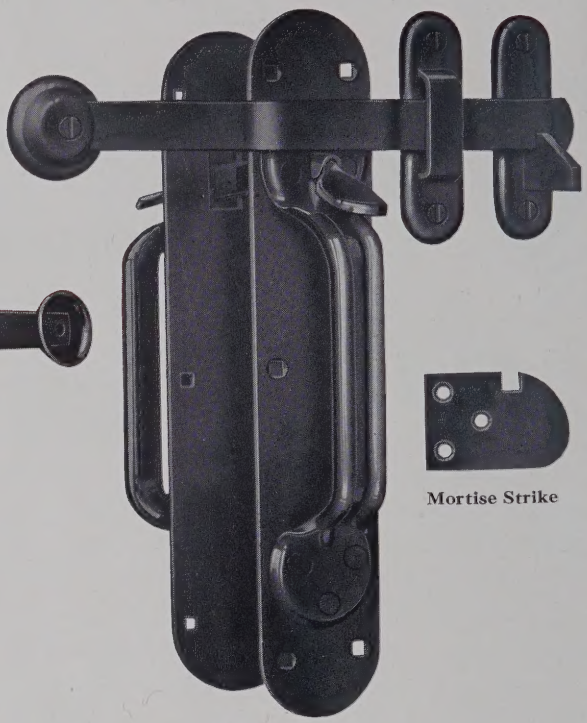
For Garages and Industrial Buildings



(Inside view)
One-quarter full size



(Inside view)
One-quarter full size



(Outside view)
One-quarter full size

Mortise Strike

1263 Wrought Steel — For doors 1½″ to 2¼″ in thickness.

1252 Wrought Steel — Furnished on order for doors up to 3″ in thickness.

1264 Wrought Steel — For doors 1¾″ to 2¼″ in thickness.

For doors of garages and industrial buildings.

The handles and thumb pieces are well formed and liberal in size.

When doors are to be locked with a padlock, specify one pair padlock eyes 1245 No. 2. or No. 3

Screw holes are made to take wood screws or carriage bolts.

For door pulls to match, see page 164.

Number	Plate (Inches)	Length of Handles (Inches)	Length of Grips (Inches)	Length of Latch Bar (Inches)	Quantity and Size of Wood Screws				Average Net Weight Per Dozen (Lbs.)
					Handle and Plates	Latch Bar	Strike and Guide	Escutcheon	
1252	.....	10¾	5	6¼	6–1½ x 12	1–1¾ x 12	4–1½ x 12	2–1 x 10	37
1263	14½ x 2¾	10¾	5	6¼	6–1½ x 12	1–1¾ x 12	4–1½ x 12	2–1 x 12	53
1264	14½ x 2¾	10¾	5	12	12–1½ x 12	1–1¾ x 12	4–1½ x 12	.....	81

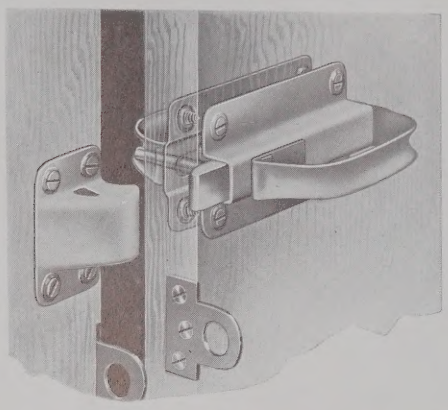
One set in a box with wood screws.

Furnished in Japanned (J), Dead Black (J1) or (KJ1) finish.

Carriage bolts furnished on order; when desired, state thickness of door.

Specify Class Number and Finish

Barn Door Latch



Applied
One-quarter full size

1240 Wrought Steel

Operated by a handle from either side. Adjustable for doors ¾″ to 3″ in thickness.

Furnished with one pair padlock eyes for locking the door.

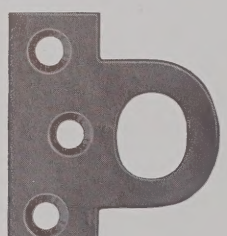
The bolt and spring are Cadmium plated; handles, plates and strikes Japanned or Galvanized, as specified. The handles are connected by a ¼″ pin. The strike is extra wide to allow for sagging of the door.

Length of Handles (Inches)	Case (Inches)	Throw of Bolt (Inches)	Strike (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
4¾	5 x 2¾	15/16	3 x 1⅞	18–⅞ x 10	21¾	2½	56

One set in a box with wood screws. Furnished in Japanned (J) or Galvanized (R) finish.

Specify Class Number and Finish

Padlock Eyes



No. 2 One-half full size

1245 Wrought Steel

Used in pairs, being attached to the edge of the door and jamb. When doors are closed screws are concealed and the padlock shackle can be slipped through both eyes.

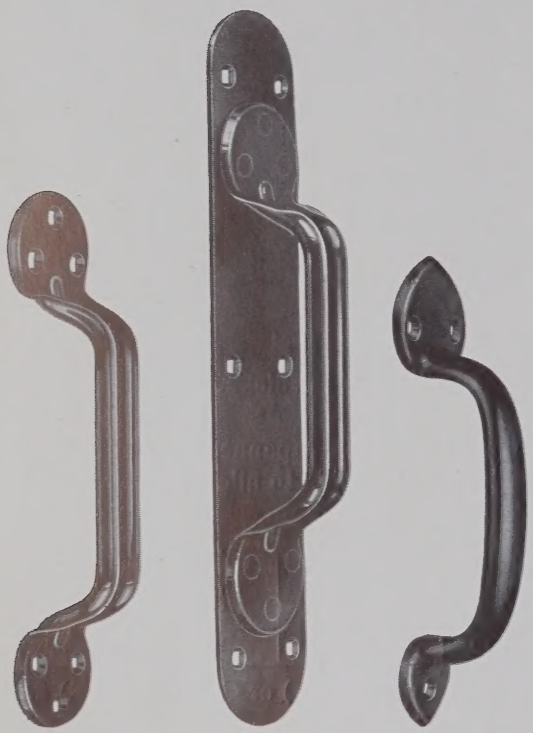
Size	Size (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
No. 1	1⅝ x 1 5/16	.095	¾ x 7	1
No. 2	2⅛ x 1⅞	.109	⅞ x 10	2¼
No. 3	2¾ x 2 3/16	.134	1 x 12	3⅞

One dozen pairs in a box with wood screws. Furnished in Japanned (J) or Cadmium (K) finish.

Specify Class Number, Finish and Size

Door Pulls

Wrought Steel



One-quarter full size

1265 **1266** **1279**

For doors of garages and industrial buildings.
Screw holes in 1265 and 1266 are made to take wood screws or carriage bolts.

Hand Wrought

Illustrations one-third full size

1275 **1276** **1277**

For garage doors.
Furnished with pyramid head wood screws.

For latch sets to match, see pages 158, 159 and 162.

Number	Overall (Inches)	Length of Grip (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
1265	10¾ x 2½	5	1½ x 12	11⅛
1266	14½ x 2¾	5	1½ x 12	29¼
1275	10⅝ x 1⅝	4¼	1¼ x 12	8¼
1276	11½ x 2⅜	4¼	1¼ x 12	9
1277	9½ x 2½	4¼	1¼ x 12	8
1279	9⅜ x 2⅜	5⅛	1¼ x 12	5⅝

One-half dozen in a box, except 1266 which is one-sixth dozen, with wood screws.

Carriage bolts furnished on order for 1265, 1266 and 1279; when desired, state thickness of door.

1265, 1266 and 1279 furnished in Japanned (J), Dead Black (J1) or (KJ1) finish.
1275, 1276 and 1277 in Dead Black (KJ1) finish.

Specify Class Number and (Finish on **1265,** *etc.)*

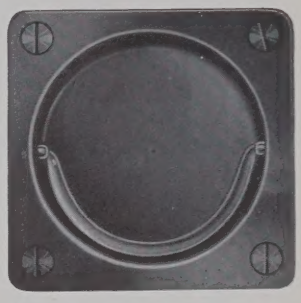
Door Pulls

For Sliding Doors

No. 2 One-half full size

No. 2 One-half full size

One-half full size



One-half full size

482 Wrought Steel
482¼ Wrought Brass

1257 Wrought Steel

1271 Cast Iron

1273 Wrought Steel

For screen door pulls, see page 180.

482, 482¼

Size	Size (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)		Dozen in a Case	Average Case Weight (Lbs.)
			482	482¼	482	
No. 1	5 x 1¼	¾ x 7	1⅜	1½	36	50
No. 2	5¾ x 1½	¾ x 8	2⅛	2	36	77
No. 3	6½ x 1¾	1 x 9	2¾	3	24	68
No. 4	7⅞ x 2¼	1¼ x 12	5¾	6	12	71

One dozen in a box, except No. 4 which is one-half dozen; with wood screws. 482 furnished in Japanned or Plated finishes; 482¼ in Plated finishes.

1257

Size	Size (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
No. 1	5⅛ x 15/16	2– ¾ x 7	¾	20	17
No. 2	6½ x 1 3/16	2– ⅞ x 8	1½	20	31
No. 3	7½ x 1 11/16	4–1 x 9	2¾	10	29
No. 4	9 x 2 1/16	4–1¼ x 12	5⅜	6	34

One dozen in a box, except No. 4 which is one-half dozen; with wood screws. Furnished in Japanned or Plated finishes.

1271, 1273

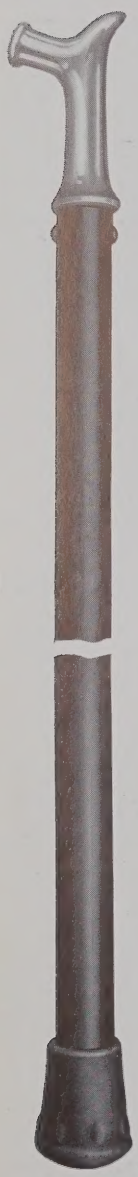
Number	Size (Inches)	Depth of Cup (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
1271	6½ x 1½	1	1 x 12	10
1273	3 x 3	21/32	1 x 8	3½

One-half dozen in a box with wood screws. Furnished in Japanned finish.

Finishes described on page 25

Specify Class Number (Finish and Size on **482, 482¼** *and* **1257***)*

Window Poles



Wrought Steel

7025 With Malleable Iron Hook
7025¼ With Cast Bronze Hook

Made of wrought steel tubing, $^{23}/_{32}$″ in diameter, with a malleable iron or cast bronze hook securely riveted to the top.

The sturdy steel tubing makes the pole rigid and practically indestructible.

The lower end is fitted with a removable rubber cap with steel insert to prevent end of pole from cutting through rubber.

Regularly furnished in olive green lacquer, with aluminum finished or polished bronze hook. The hook fits all standard makes of window pull sockets and transom eyes.

Other colors on order.

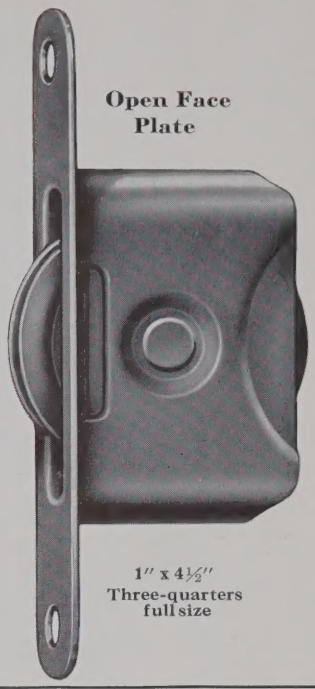
Size, Length (Feet)	Average Net Weight Per 100 (Lbs.)	Number in a Carton or Bundle	Average Weight (Lbs.)
4	107	6	9
5	133	6	11
6	160	6	13
7	187	6	14
8	198	6	15
9	210	6	16
10	230	6	17
12	270	6	20

Each enclosed in a cardboard tube. 4′ to 7′ packed in cartons; larger sizes bundled in heavy paper.

Specify Class Number and Size

Sash Pulleys

2″ Wheel



Open Face Plate

1″ x 4½″ Three-quarters full size

Wrought Steel

7003 Without Screws

For residences and apartment houses.

Wheel hub is steel bushed and wheel halves are securely riveted together. Furnished on order with brass bushing.

The combination wheel groove is designed for sash cord up to and including No. 8, or the light weight pulley chain, but not the larger sizes of flat link chain.

Axle pin is spun, insuring a smooth, straight axle and quiet, free-running wheel.

Furnished on order with a wood bearing made from hard dry maple, impregnated with oil insuring noiseless operation.

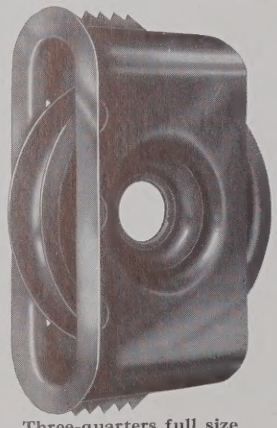
The "Baked Oil" (Mahogany) finish is rust-resisting.

Size, Face Plate (Inches)	Gauge of Metal (Face Plate)	Diameter of Axle (Inches)	For Thickness of Frame Stile (Inches)	Mortise (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
1 x **4½**	.050	5/16	7/8	2 3/8 x 11/16	3/4 x 8	2	50	117
1⅛ x **4½**	.050	5/16	7/8	2 3/8 x 11/16	3/4 x 8	2¼	50	120

Packed bulk without screws. Furnished in "Baked Oil," Cadmium (K) or Galvanized (R) finish.

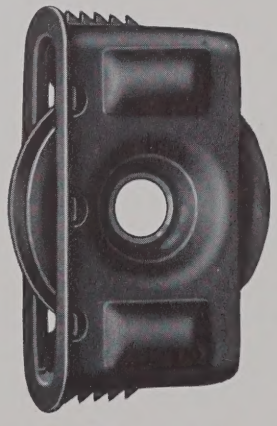
Drive Type—Cone Bearing

7006 Wrought Steel



Three-quarters full size

7007 Wrought Steel



7010 Wrought Steel

For residences and apartment houses.

The saw-tooth construction holds pulley securely in the frame. Face plate need not be mortised into frame.

The combination wheel groove is designed for sash cord up to and including No. 8, or the light weight pulley chain, but not larger sizes of flat link chain.

The "Baked Oil" (Mahogany) finish is rust-resisting.

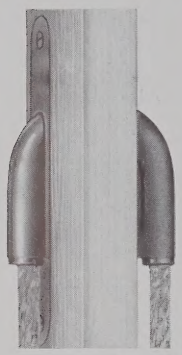
Number	Face Plate (Inches)	For Thickness of Frame Stile (Inches)	Mortise (Inches)	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
7006	1 1/16 x 2 13/16	7/8	2½ x 1	1⅜	50	81
7007	1 1/16 x 2 13/16	7/8	2½ x 5/8	1⅜	50	81
7010	1 x 2 15/16	7/8	2 11/16 x 13/16	1⅜	50	81

Packed bulk. Furnished in "Baked Oil" or Cadmium (K) finish.

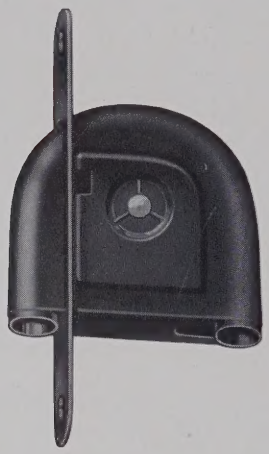
Specify Class Number, Finish and (Size on **7003**)

Dillon Jam-Proof Sash Pulleys

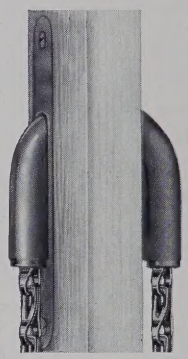
2″ Wheel



Installed with sash cord



1″ x 4½″ One-half full size



Installed with sash chain

Wrought Steel

7000 Without Screws
Sc7000 With Wood Screws

For residences and apartment houses.

Enclosed construction keeps out the cold, dust and dirt and avoids the necessity of special housings to prevent drafts. The one-piece reinforced housing is so formed that the sash cord or chain cannot slip off the wheel or become jammed.

The wheel is fully enclosed, leaving no unsightly opening. The combination wheel groove is designed for sash cord up to and including No. 8, or the light weight pulley chain, but not the large sizes of flat link chain. Sash cord is easily pushed through pulley without the necessity of a mouse. A steel mouse tape is furnished for use with chain.

Wheel hub is steel bushed and wheel halves are securely riveted together.

Axle pin is made from 5/16″ Bessemer rod, and is spun, insuring a smooth, straight axle and quiet, free-running wheel.

Furnished on order in wrought brass with steel axle.

The "Baked Oil" (Mahogany) finish is rust-resisting.

Size, Face Plate (Inches)	Gauge of Metal (Face Plate)	Diameter of Axle (Inches)	For Thickness of Frame Stile (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)		Dozen in a Case	Average Case Weight (Lbs.)	
					7000	Sc7000		7000	Sc7000
1 x 4 1/8	.062	5/16	7/8	3/4 x 8	2	2 1/8	50	113	119
1 x 4 1/2	.062	5/16	7/8	3/4 x 8	2 3/8	2 1/2	50	119	125
1 1/8 x 4 1/2	.062	5/16	7/8	3/4 x 8	2 1/2	2 1/2	50	125	131

7000—packed bulk without screws. Sc7000—one dozen in a box with wood screws.

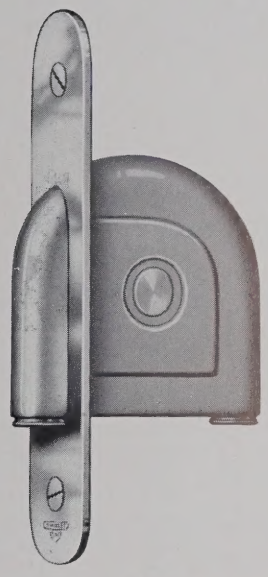
Furnished in "Baked Oil," Cadmium (K) or Bronze finish over Cadmium (KA).
Also Galvanized (R), or in any Plated finish over Cadmium.

Finishes described on page 25

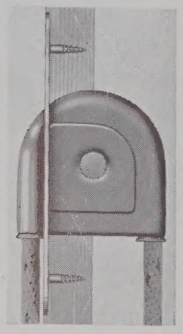
Specify Class Number, Finish and Size

Dillon Jam-Proof Sash Pulleys

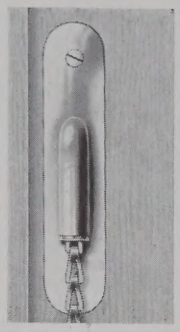
Heavy Duty **2½" Wheel**



1¼" x 5¾" One-half full size

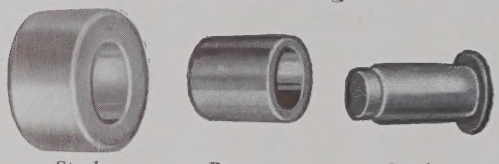


Installed with sash cord



Installed with sash chain

Journal Bearing



Steel Bushing — Bronze Sleeve — Steel Pin

Full Size

Consists of an extra heavy steel bushing and pin and a bronze sleeve. This construction gives a bearing surface of steel against bronze throughout.

7001 Wrought Steel **7001½ Wrought Steel with Bronze or Brass Face Plate**

7002 Wrought Bronze or Brass

For office buildings, schools, hospitals, apartment houses, etc.

Ruggedly constructed for heavy duty work, insuring great rigidity and long life. Journal bearing gives smooth, quiet operation. Enclosed construction keeps out the cold, dust and dirt and avoids the necessity of special housings to prevent drafts. The reinforced housing is so formed that the sash cord or chain cannot slip off the wheel or become jammed.

The wheel is fully enclosed, leaving no unsightly pulley openings. The combination wheel groove is designed for either sash cord or chain. Sash cord is easily pushed through the pulley without the necessity of a mouse. A steel mouse tape is furnished for use with chain. Will take sash cord up to and including No. 10; chain up to and including type A or No. 50.

Wheel will withstand strains up to 1,500 lbs.

Size, Face Plate (Inches)	Gauge of Metal (Face Plate)	Diameter of Axle (Inches)	For Thickness of Frame Stile (Inches)	Size of Wood Screw	Net Weight Per Dozen (Lbs.)
1⅛ x 5	.095	5/16	1 1/16 or 1⅛	⅞ x 10	6
1¼ x 5¾	.095	5/16	1 1/16 or 1⅛	⅞ x 10	6⅜

One dozen in a box with wood screws.

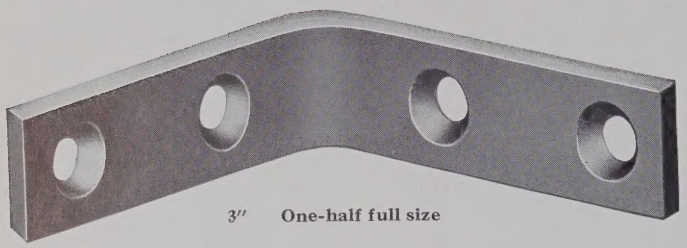
7001-7001½ furnished in standard finishes over a rust-resisting base, also "Baked Oil" or Cadmium (K) finish. 7002 furnished in standard finishes.

Finishes described on page 25

Specify Class Number, Finish and Size

Corner Irons

Corner Braces



3″ One-half full size

997 Wrought Steel

Screw holes are staggered in 5″ and larger.
For wide corner braces, see page 141.

Flat Corner Irons

2½″ x ½″ Full size

999 Wrought Steel

997

Size, Length of Sides (Inches)	Width (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Gross (Lbs.)	Gross in a Case	Average Case Weight (Lbs.)
1	½	.072	2– ¾ x 6	3¼	10	35
1½	½	.095	4– ¾ x 6	5	10	52
2	⅝	.109	4– ¾ x 8	9¾	5	51
2½	⅝	.120	4– ¾ x 8	13¾	4	57
3	¾	.134	4– ¾ x 9	22	2	46
3½	¾	.148	4– ¾ x 9	29¼	1½	45
4	⅞	.165	4– ¾ x 10	43½	1½	67
5	1	.180	6–1¼ x 11	67	1	69
6	1⅛	.180	6–1¼ x 12	104	½	54
8	1⅛	.220	6–1¼ x 12	152	½	78

1″ to 3½″ one-sixth gross in a box; 4″ to 6″ one-twelfth gross; 8″ one-twenty-fourth gross, all without screws.

999

Size (Inches)		Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Gross (Lbs.)	Gross in a Case	Average Case Weight (Lbs.)
Length of Sides	Width					
1½	⅜	.071	4–⅝ x 5	2⅝	10	28
2	⅜	.071	4–⅝ x 5	3½	10	36
2½	⅜	.071	4–⅝ x 5	4⅝	10	48
2½	½	.071	4–¾ x 6	6	10	62
3	½	.071	4–¾ x 6	8⅛	10	83
3	⅝	.077	4–¾ x 6	10	5	52
3½	½	.071	4–¾ x 8	9	5	46
3½	⅝	.077	4–¾ x 8	12¾	5	66
3½	¾	.077	4–¾ x 8	14¼	5	73
4	⅝	.077	4–¾ x 8	14	4	58
4	¾	.077	4–¾ x 8	16¾	4	69
4	⅞	.077	4–¾ x 8	18¾	4	77
5	⅞	.077	4–¾ x 8	24	2	49
5	1	.077	4–¾ x 8	26¾	2	55
6	⅞	.083	6–¾ x 9	35	2	72
6	1	.083	6–¾ x 9	37½	2	77
8	1½	.095	8–¾ x 9	84	½	43

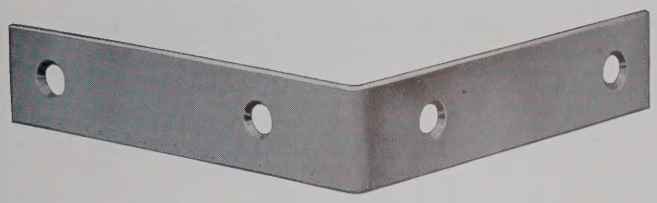
One-sixth gross in a box, except 8″ which is packed one-twelfth gross, all without screws.

Furnished in Plain Steel (PS) or Cadmium (K) finish

Specify Class Number, Finish and Size

Corner Irons

Outside Corner Irons



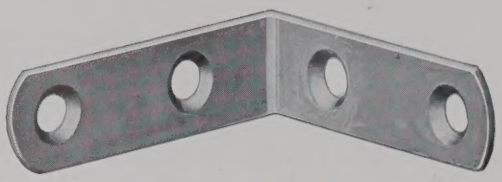
1″ One-half full size

996 Wrought Steel

Size, Width (Inches)	Length of Sides (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Gross (Lbs.)
¾	4½	.084	4–¾ x 9	23¼
⅞	4½	.084	4–¾ x 9	27
1	4½	.084	4–¾ x 9	31¼
1¼	4½	.084	8–¾ x 9	36¾
1½	4½	.084	8–¾ x 9	44¼

One-sixth gross in a box without screws.
Furnished in Plain Steel (PS) or Cadmium (K) finish.

Corner Braces



½″ x 1½″ Full size

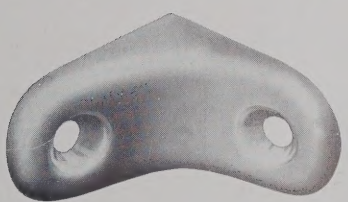
998 Wrought Steel

Size (Inches)		Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Gross (Lbs.)
Width	Length of Sides			
½	¾	.075	2– ⅝ x 5	2¼
½	1	.075	2– ⅝ x 5	3
½	1½	.075	4– ⅝ x 5	4½
½	2	.079	4– ⅝ x 5	6¼
½	2½	.079	4– ⅝ x 5	7¾
¾	1	.095	2–1 x 7	5½
¾	1½	.095	4–1 x 7	7¾
¾	2	.095	4–1 x 7	10½
¾	2½	.095	4–1 x 8	13¼
¾	3	.095	4–1 x 8	16¼

One-sixth gross in a box without screws.
Furnished in Bright Brass finish.

Corner Braces

Corrugated



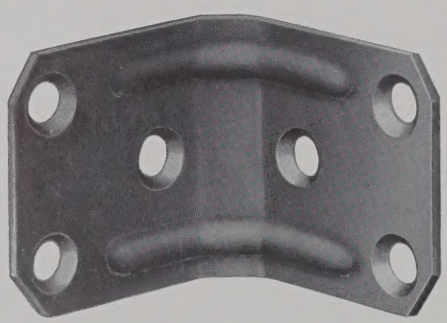
1″ x 1″ Full size

996½ Wrought Steel

Size (Inches)	Width (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Gross (Lbs.)
1 x 1	¾	.037	1 x 8	5⅛
2 x 2	¾	.050	1 x 9	8

One-sixth gross in a box without screws.
Furnished in Dull Copper finish.

Corner Braces



2¼″ Two-thirds full size

997½ Wrought Steel

Size, Length of Sides (Inches)	Width (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Gross (Lbs.)
1	1	.071	4–⅝ x 6	5¼
1⅝	1½	.095	6–¾ x 8	16½
2¼	1¾	.095	6–¾ x 10	29¾

One-sixth gross in a box without screws.
Furnished in Plain Steel (PS), Japanned (J) or Cadmium (K) finish.

Specify Class Number (Finish on 996-997½) and Size

Mending Plates

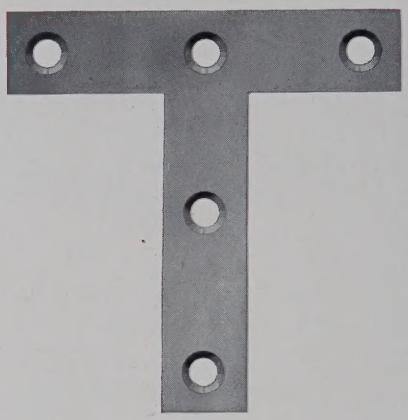
6″ One-half full size

995 Wrought Steel

Size, Length (Inches)	Width (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per Gross (Lbs.)	Gross in a Case	Average Case Weight (Lbs.)
2	5/8	.072	2– 3/4 x 7	4	...	..
2½	5/8	.083	2– 3/4 x 7	5½	...	..
3	3/4	.095	4– 3/4 x 7	8	5	41
3½	3/4	.095	4– 3/4 x 8	10	...	..
4	7/8	.109	4– 3/4 x 8	12½	4	51
5	1	.109	4– 3/4 x 8	21	2½	54
6	1⅛	.120	4– 3/4 x 9	31½	2	65
8	1¼	.134	4–1¼ x 10	49	...	..
10	1¼	.156	6–1¼ x 10	92	...	..
12	1¼	.156	6–1¼ x 10	106	...	..

6″ and smaller, one-sixth gross in a box; larger sizes one-twelfth gross; all without screws. Furnished in Plain Steel (PS) or Cadmium (K) finish.

T-Plates



4″ x 4″ One-half full size

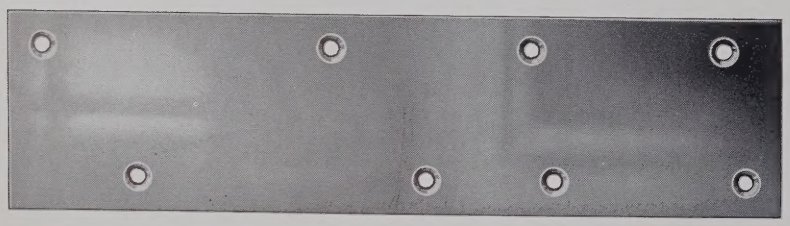
995½ Wrought Steel

Size (Inches)	Width (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
2½ x 2½	½	.075	3/4 x 7	½
3 x 3	5/8	.083	3/4 x 8	7/8
4 x 4	3/4	.083	3/4 x 8	1½
5 x 5	1	.083	3/4 x 9	2½
6 x 6	1⅛	.123	3/4 x 9	5⅛

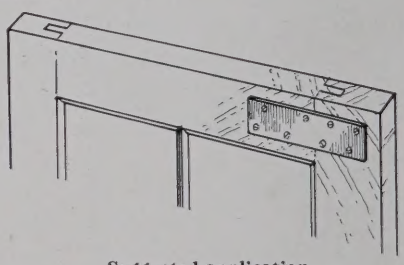
One-sixth gross in a box, except 6″ x 6″ which is packed one-twelfth gross; all without screws. Furnished in Plain Steel (PS) or Cadmium (K) finish.

Specify Class Number, Finish and Size

Garage Door Mending Plate



One-third full size



Suggested application

1985 Wrought Steel

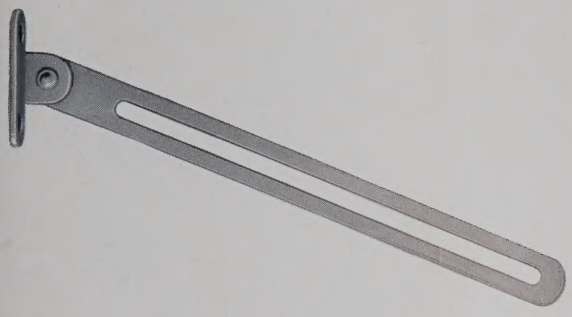
For strengthening garage doors at the cross rails. Screw holes are staggered to prevent splitting and are located for maximum strength. Recommended for new doors as well as old.

Size, (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
12 x 3	.125	1¼ x 10	15½

One dozen in a box without screws. Furnished in Plain Steel (PS) or Cadmium (K) finish.

Specify Class Number and Finish

Lid Supports

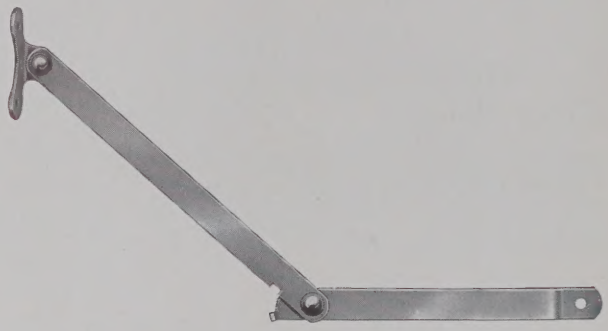


10″ One-third full size

430 Wrought Steel

Size, Length (Inches)	Size of FH Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
6	¾ x 7	2¼
7½	¾ x 7	2¾
10	¾ x 7	3¼
12	¾ x 7	3¾

One dozen pairs in a box with wood screws.



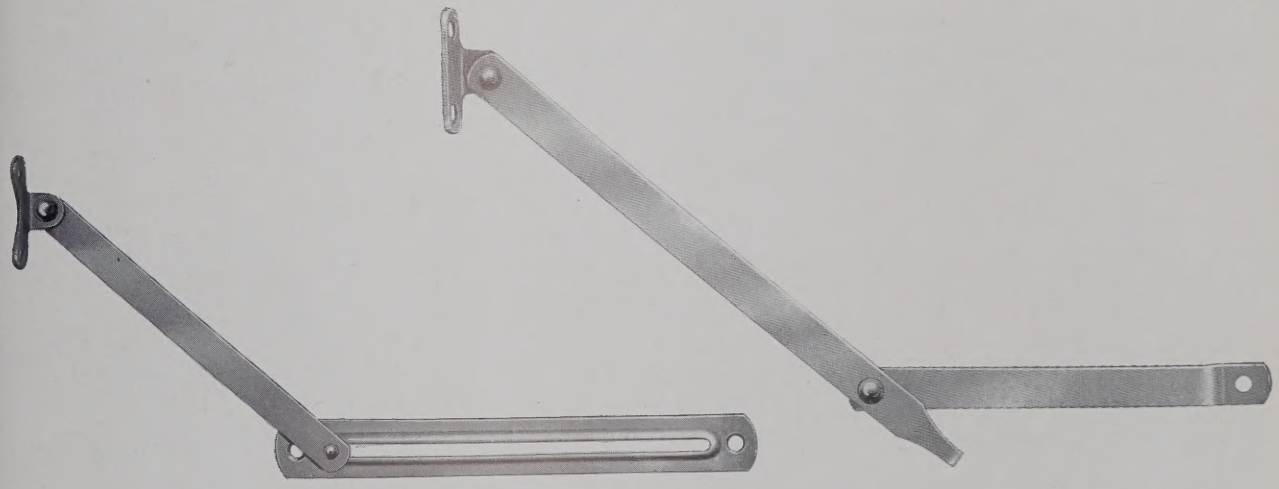
(RH) One-third full size

432 Wrought Steel

Not reversible; when ordered singly specify hand.

Length (Inches)	Size of RH Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
10	¾ x 7	3¼

One dozen pairs in a box (one-half right hand) with wood screws.



One-third full size

435 Wrought Steel

Length (Inches)	Size of RH Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
12¼	¾ x 7	4¼

One dozen pairs in a box with wood screws.

One-third full size

438 Wrought Steel

Length (Inches)	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
9	⅝ x 5 FH ⅝ x 6 RH	2¼

One dozen pairs in a box with wood screws.

Furnished in Bright Brass (C) or Bright Nickel (N) finish

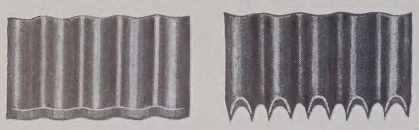
***Specify Class Number, Finish and (Size on* 430)**

Corrugated Fasteners

Wrought Steel

Parallel Corrugations

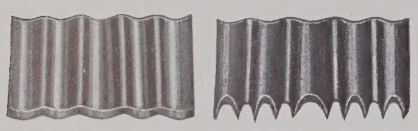
Plain Edge — Saw Edge



3300 — 3315

Divergent Corrugations

Plain Edge — Saw Edge



3306 — 3320

Distinctive Stanley Features

Continuous Cutting Edges

Every part of the edge, the bottoms of the throats, the sides of the throats and the points are almost razor sharp, due to a patented special process.

Uniform Quality

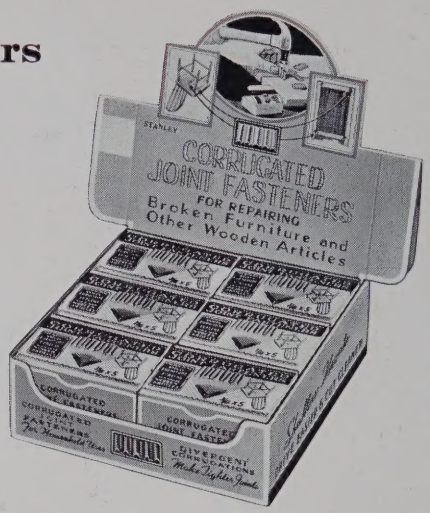
The Stanley Works makes its own Corrugated Fastener Steel to a special analysis and temper and can thus secure absolutely uniform quality.

Used for making strong, tight joints in box shooks, cabinet work, screen doors, window screens, broken furniture, built-up work, columns, and in all kinds of repair work in wood.

Furnished with 2, 3, 4, 5, 6 and 7 corrugations. Depth of corrugations, 1/4", 3/8", 1/2", 5/8", 3/4", 7/8" and 1".

Packed: Cartons of 1000, 500 and 250; paper boxes of 100, 10 boxes to a carton; bulk—kegs or barrels.

Specify Class Number, Number and Depth of Corrugations, and Packing Desired



Counter Display Carton

Containing 12 boxes, 50 fasteners of one size in a box. Three sizes are available.

	3/8" x 5	1/2" x 5	5/8" x 5
Av. net wgt.	2 lbs.	2 1/4 lbs.	3 lbs.

Packed for Shipping

Three Display Cartons—one size each in a shipping container. Average net weight, 9 1/2 lbs.

or

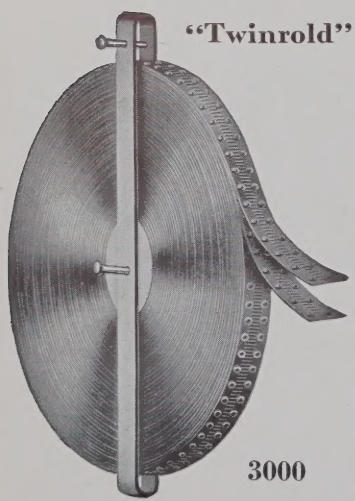
Twelve Display Cartons—all one size in a shipping container. Average net weight, 3/8" 24 lbs., 1/2" 30 lbs., 5/8" 37 lbs.

Specify Packing Desired

Box Strapping

Wrought Steel

"Twinrold"



3000

Specifications

Self-tightening.

Annealed dead soft.

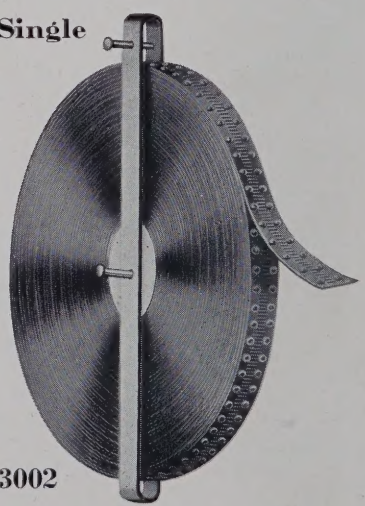
Great tensile strength.

Round edges prevent cutting the hands.

Ribs along center allow nails to be driven obliquely and prevent nails from slipping.

Furnished in coils of 300 feet in Japanned finish

Single



3002

Size, Width (Inches)	Approximate Weight of Each Coil (Lbs.)	Number of Coils in a Case
1/2	7 1/2	20
5/8	9 1/2	20
3/4	11 1/2	20
7/8	13 1/2	20
1	15 1/2	20

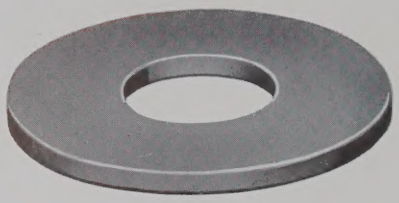
Specify Class Number and Width

Burrs

5/16" Full size

991 Wrought Steel

Washers



For 3/4" bolt Full size

994 Wrought Steel

Made from clean stock, true as to size and weight.

The packages or kegs contain no scrap.

Special sizes furnished on order.

Burrs

991

For Rivet Size	Outside Diameter (Inches)	Size of Hole	Thickness Birmingham Gauge	Approximate Number to the Pound
3/8	3/4	.390	16	169
11/32	3/4	.360	16	160
5/16	5/8	.325	17	273
1	5/8	.312	18	315
2	5/8	.295	18	303
3	9/16	.272	18	380
1/4	9/16	.257	18	368
4	5/8	.250	18	281
5	1/2	.227	18	465
6	1/2	.215	18	450
3/16	1/2	.197	18	436
7	1/2	.188	18	430
8	1/2	.172	18	420
9	7/16	.157	18	552
10	13/32	.143	18	637
11	3/8	.127	18	740
12	3/8	.115	18	722
13	3/8	.101	19	822
14	11/32	.085	19	965

One pound in a box. Also in 100 pound kegs. Furnished in Plain Steel (PS) or Tinned finish.

Washers

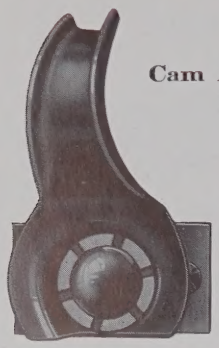
994

For Bolt Size (Inch's)	U. S. Standard Sizes: Outside Diameter (Inches)	Size of Hole (Inches)	Thickness: Birmingham Gauge	Thickness: Inches	Approximate Number in 100 Pounds
3/16	9/16	1/4	18	3/64	36,200
1/4	3/4	5/16	16	1/16	14,900
5/16	7/8	3/8	16	1/16	11,100
3/8	1	7/16	14	5/64	6,700
7/16	1 1/4	1/2	14	5/64	4,100
1/2	1 3/8	9/16	12	7/64	2,600
9/16	1 1/2	5/8	12	7/64	2,200
5/8	1 3/4	11/16	10	1/8	1,300
3/4	2	13/16	9	5/32	910
7/8	2 1/4	15/16	8	11/64	652
1	2 1/2	1 1/16	8	11/64	532
1 1/8	2 3/4	1 1/4	8	11/64	454
1 1/4	3	1 3/8	8	11/64	384
1 3/8	3 1/4	1 1/2	7	3/16	300
1 1/2	3 1/2	1 5/8	7	3/16	260
1 5/8	3 3/4	1 3/4	7	3/16	227
1 3/4	4	1 7/8	7	3/16	200
1 7/8	4 1/4	2	7	3/16	176
2	4 1/2	2 1/8	7	3/16	159
2 1/4	4 3/4	2 3/8	5	7/32	121
2 1/2	5	2 5/8	4	15/64	104
2 3/4	5 1/4	2 7/8	3	1/4	91
3	5 1/2	3 1/8	2	9/32	77

Regular packing, 200 pound kegs. Also in 100 pound kegs and 5 pound boxes. Furnished in Plain Steel (PS) or Galvanized (R) finish.

Specify Class Number, Finish and Rivet or Bolt Size, also (state packing desired)

Window Fasteners



Cam Action

Two-thirds full size

Strikes

For sash opening in

1763

Fastener with rim strike

For sash opening out

1763½

Fastener with surface strike

For sash opening in or out

1766

Fastener with universal strike

Wrought Steel

For locking cellar windows, storm sash, etc. The cam type fastener with large loop handle performs two functions: (1) in locking it pulls the window tight against the stops; (2) in opening it forces open a window which sticks by turning the handle beyond center to the left. A friction washer holds the cam in proper position.

Length, 2½". Projection, 1$\frac{1}{16}$".

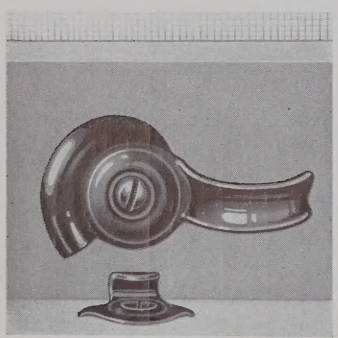
One dozen in a box with ¾" x 7 wood screws. Approximate weight, 1⅞ pounds.

Furnished in Japanned (J) or Cadmium (K) finish

Specify Class Number and Finish

Screen Fasteners

Cam Action



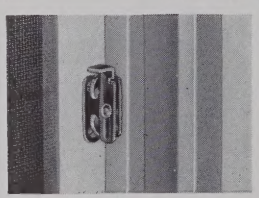
Two-thirds full size
Applied (Unlocked)

3½ Wrought Steel

Applied to the side or bottom of the screen.

Not Reversible

Catch Fastener

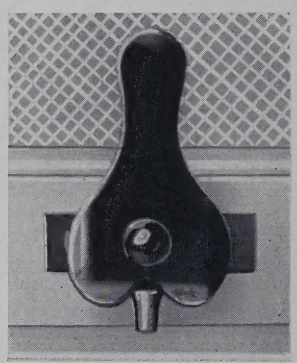


Two-thirds full size
(RH) Applied (Locked)

Wrought Steel

1719¼ Fastener with Catch
1719½ Fastener only

For screens where storm sash is used and employs the same catch as used with fasteners 1719 and 1721.



Two-thirds full size
Applied (Unlocked)

1726 Wrought Steel

Applied to the side or bottom of the screen.

For locking screens. Can be applied on a strip as narrow as 1¼".

Number	Length (Inches)	Projection (Inches)	Size of Wood Screws FH	Size of Wood Screws RH	Average Net Weight Per Gross (Lbs.)	Average Net Weight Per Gross Pairs (Lbs.)	Gross in a Case	Average Case Weight (Lbs.)
3½	2⅛	¾	⅝ x 6	¾ x 8	7	...	5	36
1719¼	2$\frac{5}{16}$	...	¾ x 6	.....	...	27	...	...
1719½	2⅛	...	¾ x 6	.....	...	18	...	...
1726	2	⅝	¾ x 7	.....	8½	...	...	...

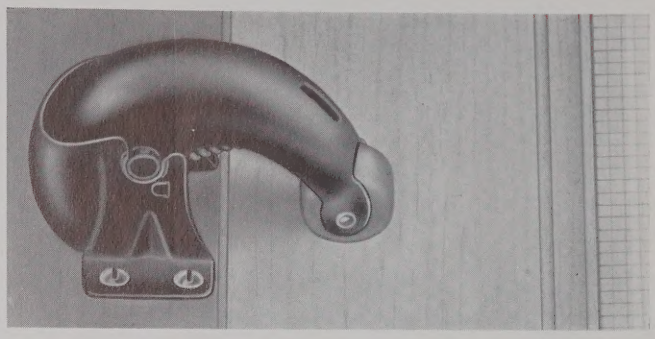
3½, 1726—one-sixth gross in a box; 1719¼, 1719½—one-sixth gross pairs (one-half right hand); with wood screws.

Furnished in Japanned (J) or Cadmium (K) finish

Specify Class Number and Finish

Screen Door Catches

Display Carton



Applied Two-thirds full size

"Snappy Catch"

210 Wrought Steel
210½ Wrought Brass

For holding screen doors shut. The door in closing strikes the inside rubber roller, which acts as a trigger, setting off the phosphor bronze spring; the outer rubber roller catches the door, closes it, and holds it shut.

All working parts are enclosed and there are no rough edges to catch the clothing. Steel bushings permit the rubber rollers to revolve freely. The catch has an unusually smooth finished appearance.

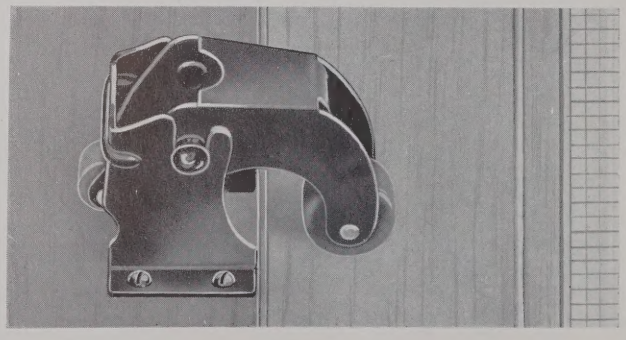
Number	Size of RH Wood Screws	Average Net Weight Per Gross (Lbs.)	Average Net Weight Per Dozen (Lbs.)	Gross in a Case	Average Case Weight (Lbs.)
210	¾ x 7	29	..	1	31
210½	¾ x 7	....	3	..	..

One in a colored box with wood screws; one dozen in a colored display carton. 210 furnished in Japanned (J) or Plated finishes; 210½ in Plated finishes. Finishes described on page 25.

207 Wrought Steel

For holding screen doors shut. The door in closing strikes the inside rubber roller, which acts as a trigger, setting off the spring; the outer rubber roller catches the door, closes it, and holds it shut.

Applied on the door casing at the edge of the door, either just above the center of the door or near the top.



Applied Two-thirds full size

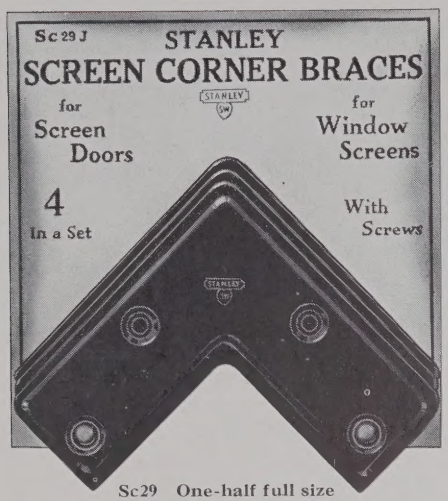
Size of RH Wood Screws	Average Net Weight Per Gross (Lbs.)	Gross in a Case	Average Case Weight (Lbs.)
¾ x 5	29	1	30

One dozen in a box with wood screws. Furnished in Japanned finish.

Specify Class Number and (Finish on **210, 210½**)

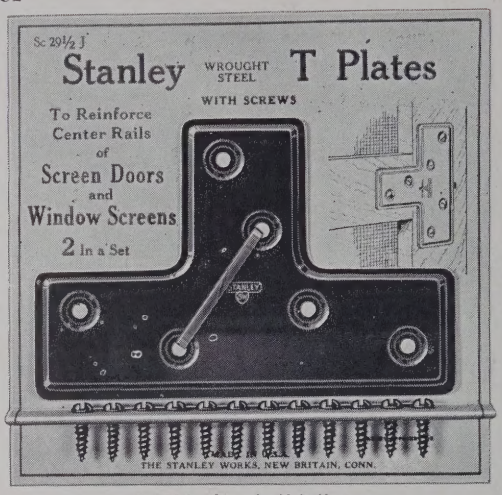
Screen Braces and Couplings

Wrought Steel



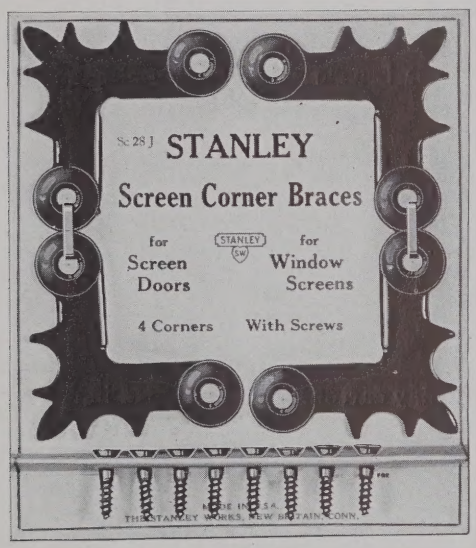
Sc29 One-half full size

29 Four on a card without screws
Sc29 Four on a card with screws


Sc 29½ J
Stanley WROUGHT STEEL T Plates
WITH SCREWS
To Reinforce Center Rails of Screen Doors and Window Screens
2 In a Set
THE STANLEY WORKS, NEW BRITAIN, CONN.

Sc29½ One-half full size

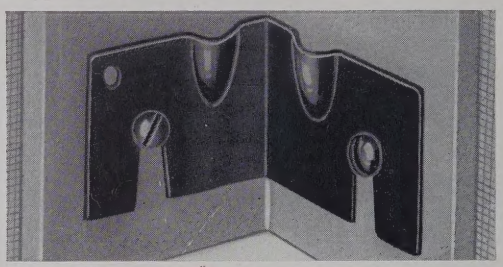
29½ Two on a card without screws
Sc29½ Two on a card with screws



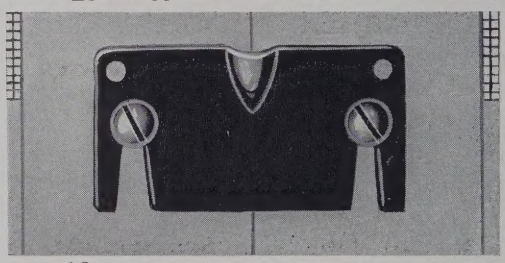
One-half full size

Sc28 Four on a card with screws

Braces and T plates are for reinforcing screens. The flanges on the sides square the corners and help brace the joints. Easily applied and they prolong the life of the screen.



15 Applied Two-thirds full size



16 Applied Two-thirds full size

For holding sectional screens together. The slight projections are for driving with a hammer when drawing the screens together. When taking screens down, release the screws slightly in order to remove couplings. The small hole in the corner is used to fasten coupling to screen when in storage.

Number	Length of Sides (Inches)	Width (Inches)	Size of Wood Screws	Average Net Weight Per Gross Sets (Lbs.)	Average Net Weight Per Gross (Lbs.)	Gross Sets in a Case	Average Case Weight (Lbs.)
15	1½	1¼	¾ x 7 RH	..	8⅝	..	..
16	2¼	1¼	¾ x 7 RH	..	6¾	..	..
Sc28	2⅛	¾	⅝ x 6 FH	19	...	1	20
29	3¼	1 5/16	⅝ x 6 FH	37	...	1	38
Sc29	3¼	1 5/16	⅝ x 6 FH	53	...	1	54
29½	4¼	1¼	⅝ x 6 FH	21	...	1	25
Sc29½	4¼	1¼	⅝ x 6 FH	24	...	1	28

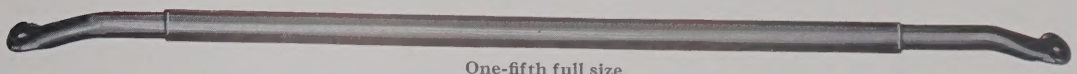
Sc28, etc.—one-twelfth gross sets in a box; 15, 16—one-twelfth gross; 29, 29½—without screws, others with wood screws.

Furnished in Japanned (J) or Cadmium (K) finish

Specify Class Number and Finish

Screen Door Guards

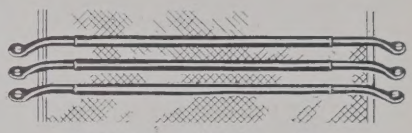
Adjustable



One-fifth full size

1737 Wrought Steel
1737¼ Wrought Brass

Three guards mounted on a door not only protect the wire cloth but also reinforce the door and serve as a push bar. Made of wrought steel or brass of strong U-shaped construction, which adds strength without adding weight. Adjustable for doors from 2′ 6″ to 3′ 6″ in width.



Suggested application. One or more may be used

Length Closed (Inches)	Width (Inches)	Projection (Inches)	Gauge of Metal		Size of RH Wood Screws	Average Net Weight Per Dozen (Lbs.)	
			Center	Ends		1737	1737¼
29	1	¾	.049	.058	¾ x 7	17	19

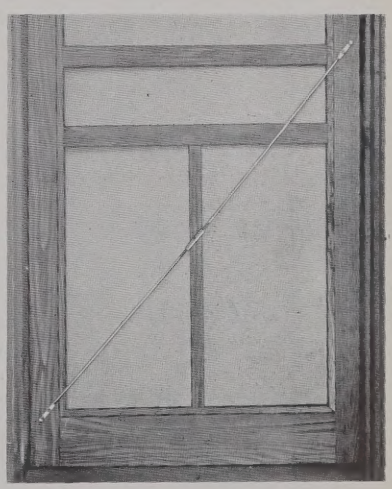
One-half dozen in a box with wood screws. 1737 Japanned (J) or Sprayed Brass (Br) finish; 1737¼ in Plated finishes.

Finishes described on page 25

Specify Class Number and Finish

Screen Door Brace

1739 Wrought Steel with Brass Turnbuckle



Applied

For taking up the sag in a screen or storm door.

The steel rod is cadmium plated and the ends are corrugated to bite into the wood, making a firm contact when applied.

Equipped with a solid brass turnbuckle (hexagon shaped), which has a hole in it so that the desired tension can be secured either by inserting a nail in the hole or by using a wrench or pliers.

Offset ends on the rod provide clearance permitting the turnbuckle to turn freely.

Length Overall (Inches)	Diameter of Rod (Inches)	Turnbuckle (Inches)	Size of RH Wood Screws	Average Net Weight Per Dozen (Lbs.)	Dozen in a Case	Average Case Weight (Lbs.)
42	¼	2¼ x ⅜	¾ x 8	6	6	41

One dozen in a box with wood screws. Rod, Cadmium Plated; Turnbuckle, Bright Brass.

Specify Class Number

Screen Lifts

One-half full size

One-half full size

Wrought Steel

51 Japanned without screws
Sc51 Japanned with wood screws

465 **Wrought Steel**
465¼ **Wrought Brass**

Number	Length (Inches)	Width (Inches)	Size of Wood Screws	Average Net Weight Per Dozen
51	3¾	⅜	⅝ x 6 RH	¼
Sc51	3¾	⅜	⅝ x 6 RH	⅜
465	3½	7/16	⅝ x 5 FH	½
465¼	3½	7/16	⅝ x 5 FH	⅝

Sc51, 465 and 465¼—three dozen in a box with wood screws. 51—three dozen in a box or bulk, both without screws. 465—furnished in Japanned (J) or Plated finishes; 465¼—in Plated finishes.

Finishes described on page 25

Specify Class Number and (Finish except on **51, Sc51**)

Screen Door Pulls

One-half full size

Sc464 Wrought Steel

One-half full size

479 Wrought Steel
477 Wrought Brass

One-half full size

1258 Wrought Steel

Number	Length (Inches)	Width at Ends (Inches)	Size of Wood Screws	Average Net Weight Per Dozen (Lbs.)
Sc464	3⅝	½	⅝ x 7 RH	¾
477	4⅞	⅝	¾ x 6 FH	⅝
479	4⅞	⅝	¾ x 6 FH	⅝
1258	4⅞	⅝	¾ x 7 FH	⅝

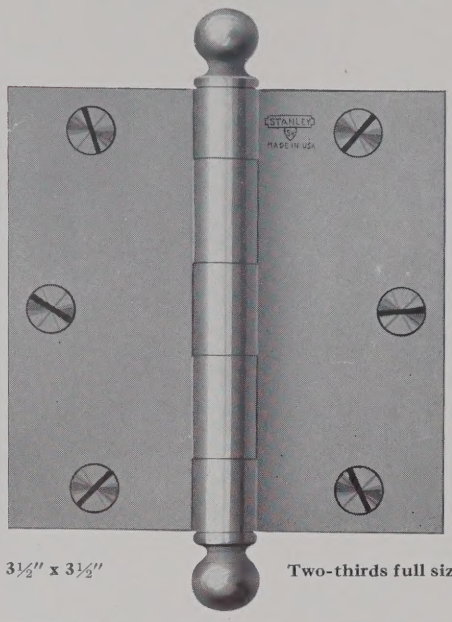
Three dozen in a box, except 477, which is one dozen, with wood screws. Furnished in Japanned (J), Cadmium (K) or Plated finishes.

Finishes described on page 25

Specify Class Number and Finish

Screen Door Hinges

Five Knuckles — Full Mortise — Loose Pin — Ball Tips



3½" x 3½" — Two-thirds full size

190 Wrought Brass or Bronze

For medium weight screen doors.

Made of light weight wrought brass or bronze, toughened and hardened by cold rolling.

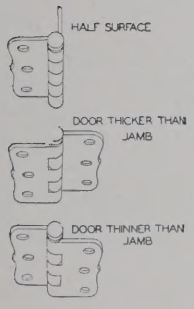
Equipped with steel bushings.

Size 2½" x 2½" has three knuckles.

Size, Open (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)
2½ x 2½	.087	6– ¾ x 7	58
3 x 3	.092	6– ¾ x 8	83
3½ x 3½	.101	6–1 x 8	120
4 x 4	.107	8–1 x 9	163

2½" x 2½" three pairs in a box; larger sizes one pair; with wood screws.

Five Knuckles — Full Surface — Loose Pin — Ball Tip



Other methods of applying size 3" x 2¾"

3" x 2¾" — Two-thirds full size

1751 Wrought Steel

For medium weight screen doors.

Made of wrought steel, toughened and hardened by cold rolling.

Size 3" x 2¾" made with one leaf countersunk on both sides, permitting the various applications shown.

Size 2½" x 2½" has three knuckles.

Size, Open (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
2½ x 2½	.082	¾ x 8	5⅛
3 x 2¾	.092	¾ x 8	7¼

One-half dozen pairs in a box with wood screws. Furnished in Japanned (J), Cadmium (K) or Plated finishes.

Finishes described on page 25

Specify Class Number, Finish and Size

Screen Door Spring Hinges

Fast Pin — **Adjustable Tension** — Ball Tips

Half Surface

Two-thirds full size

Full Surface

Wrought Steel
152 Planished and Plated

Wrought Brass
With Brass Pin
152¼ Finely Finished

Wrought Steel
154 Planished and Plated

Wrought Brass
With Brass Pin
154¼ Finely Finished

For screen doors of residences, store entrances, etc.

Made of heavy wrought steel or brass, toughened and hardened by cold rolling. The barrel and one leaf of the hinge are made in one piece, adding to its strength and durability.

The spring is made of the best tempered steel wire of ample proportions, permitting tension adjustment sufficient for the heaviest requirements. The tension can be regulated to close the door quickly or slowly.

Constructed so as to provide two vertical bearings to sustain the weight of the door, no matter whether applied on a right or left hand door.

Furnished on order with flat button tips.

152, 152¼

Length of Joint (Inches)	Width of Each Leaf (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	
				152	152¼
3	1⅜	.082	¾ x 8	102	119

One pair in a box with wood screws.

154, 154¼

Size, Open (Inches)	Gauge of Metal	Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	
			154	154¼
3 x 3	.082	¾ x 8	99	115

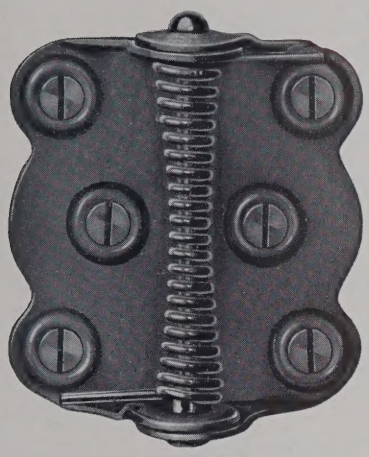
One pair in a box with wood screws.

Finishes described on page 25

Specify Class Number and Finish

Screen Door Spring Hinges

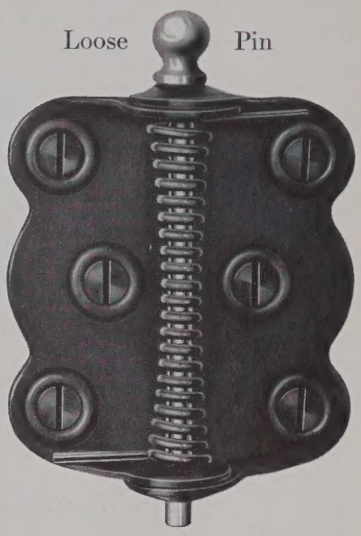
Fast Pin — Full Surface — Loose Pin



Equipped with a spring of original design which is distinctive in appearance and insures smooth operation of the door.

Two-thirds full size

Japanned without screws
Plated finishes with screws



150 Wrought Steel

Size, Open (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)		Gross Pairs in a Case	Average Case Weight (Lbs.)	
		Without Screws	With Screws		Without Screws	With Screws
3 x 2½	¾ x 8	62½	68½	1	64	70

One-half dozen pairs in a box.

151 Wrought Steel

Size, Open (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)		Gross Pairs in a Case	Average Case Weight (Lbs.)	
		Without Screws	With Screws		Without Screws	With Screws
3 x 2½	¾ x 8	65	72	1	67	74

One-half dozen pairs in a box.

Fast Pin — Full Surface — Loose Pin

Equipped with the improved Stanley spring, which is inclosed in a barrel of attractive proportions and substantial construction, being a part of one of the hinge leaves.

Two-thirds full size

Japanned without screws
Plated finishes with screws

158 Wrought Steel

Size, Open (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)		Gross Pairs in a Case	Average Case Weight (Lbs.)	
		Without Screws	With Screws		Without Screws	With Screws
3 x 2½	¾ x 8	77	83	1	79	84

One-half dozen pairs in a box.

159 Wrought Steel

Size, Open (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)		Gross Pairs in a Case	Average Case Weight (Lbs.)	
		Without Screws	With Screws		Without Screws	With Screws
3 x 2½	¾ x 8	81½	86½	1	83	88

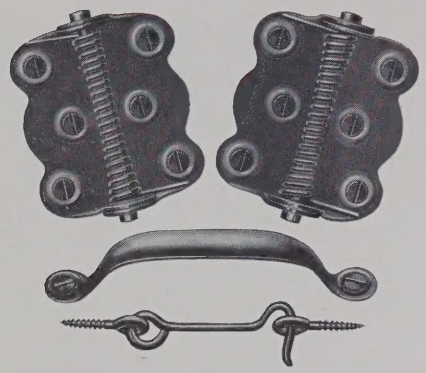
One-half dozen pairs in a box.

Furnished in Japanned (J) or Plated finishes. Finishes described on page 25.

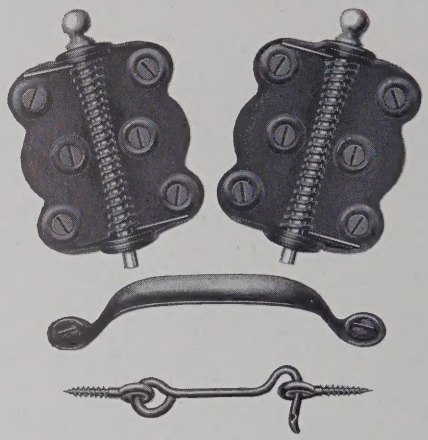
Specify Class Number and Finish

Screen Door Sets

Fast Pin Full Surface Loose Pin



One-third full size



1156 Wrought Steel

Set consists of:
One pair of spring hinges, 3″ x 2½″
One door pull, 4¾″
One hook and eye, 2½″

Average Net Weight Per Gross Sets (Lbs.)	Gross Sets in a Case	Average Case Weight (Lbs.)
82	½	42

One set in a box with wood screws.

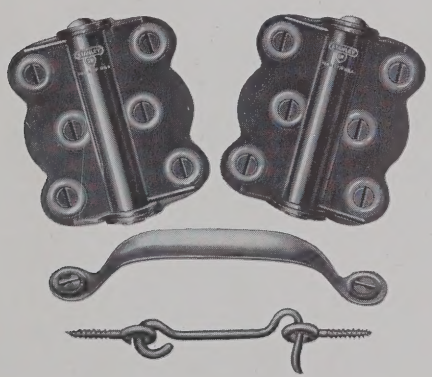
1157 Wrought Steel

Set consists of:
One pair of spring hinges, 3″ x 2½″
One door pull, 4¾″
One hook and eye, 2½″

Average Net Weight Per Gross Sets (Lbs.)	Gross Sets in a Case	Average Case Weight (Lbs.)
86	½	44

One set in a box with wood screws.

Fast Pin Full Surface Loose Pin



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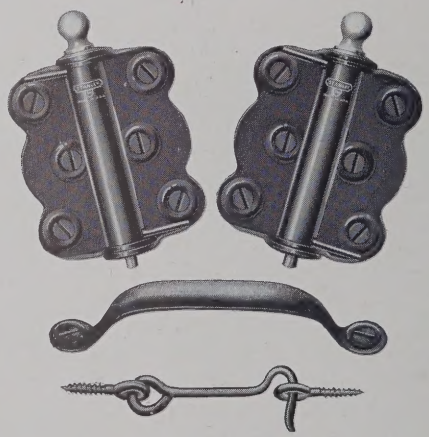


1158 Wrought Steel

Set consists of:
One pair of spring hinges, 3″ x 2½″
One door pull, 4¾″
One hook and eye, 2½″

Average Net Weight Per Gross Sets (Lbs.)	Gross Sets in a Case	Average Case Weight (Lbs.)
94	½	48

One set in a box with wood screws.

1159 Wrought Steel

Set consists of:
One pair of spring hinges, 3″ x 2½″
One door pull, 4¾″
One hook and eye, 2½″

Average Net Weight Per Gross Sets (Lbs.)	Gross Sets in a Case	Average Case Weight (Lbs.)
100	½	51

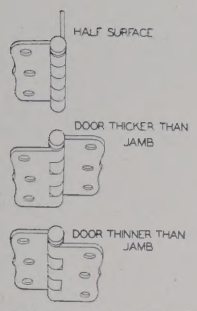
One set in a box with wood screws.

Furnished in Japanned (J) or Plated finishes. Finishes described on page 25.

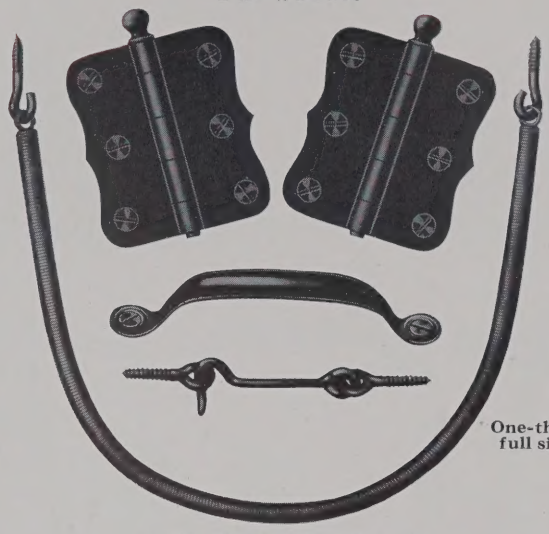
Specify Class Number and Finish

Screen Door Sets

Loose Pin — Full Surface — Ball Tip



Other methods of applying the hinges



One-third full size

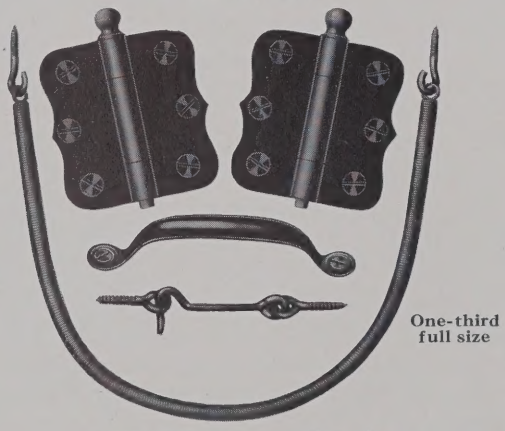
1750 Wrought Steel

Set consists of:

One pair of hinges, 3″ x 2¾″ — One hook and eye, 2½″
One door pull, 4¾″ — One coil spring, No. 3

The loose pin hinges permit the door to be easily taken down. The door is closed by a coil spring of liberal dimensions. A pull is furnished for opening the door from the outside, with a hook and eye for locking it when closed. Hinges are made with one leaf countersunk on both sides permitting various applications.

Loose Pin — Full Surface — Ball Tip



One-third full size

1752 Wrought Steel

Set consists of:

One pair of hinges, 2½″ x 2½″ — One hook and eye, 2½″
One door pull, 4¾″ — One coil spring, No. 2

The loose pin hinges permit the door to be easily taken down. The door is closed by a coil spring. A pull is furnished for opening the door from the outside, with a hook and eye for locking it when closed.

1750

Average Net Weight Per Gross Sets (Lbs.)	Gross Sets in a Case	Average Case Weight (Lbs.)
135	½	69

One set in a box with wood screws.

1752

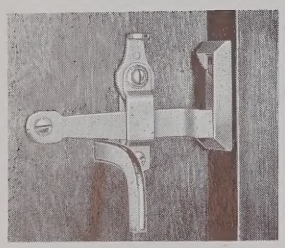
Average Net Weight Per Gross Sets (Lbs.)	Gross Sets in a Case	Average Case Weight (Lbs.)
102	½	52

One set in a box with wood screws.

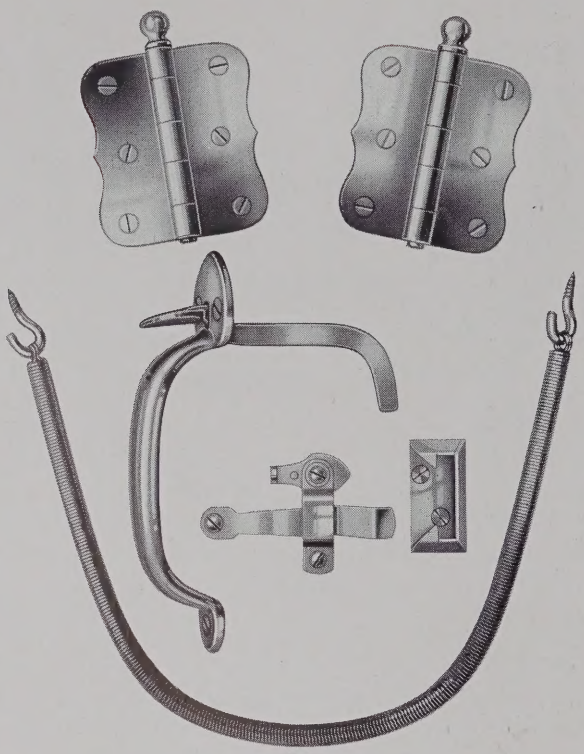
Furnished in Japanned (J), Cadmium (K) or Plated finishes. Finishes described on page 25.

Specify Class Number and Finish

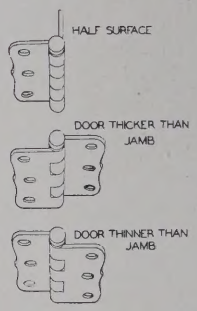
Screen or Storm Door Latch Set



Inside view Applied
Locked position



One-third full size



Other methods of applying the hinges

1754 Wrought Steel

Set consists of:
One pair of hinges, 3″ x 2¾″
One latch
One coil spring, No. 3

For screen doors, storm doors or combination doors.
All working parts of the latch are on the inside of the door.
The handle is of neat design with comfortable formed grip.
The box strike is reversible requiring no mortising and has no projections to catch clothing.
The latch bar is furnished with a special flanged bushing which prevents the bar from binding regardless of how tightly the screw is driven.
Equipped with a device for locking the door from the inside.
One leaf of the hinge is countersunk on both sides to accommodate a 1⅛″ door in a ⅞″ rabbet.

Thumb latch set furnished separately under 1242¼

1754

Average Net Weight Per Dozen Sets (Lbs.)	Dozen Sets in a Case	Average Case Weight (Lbs.)
18	3	59

One set in a box with wood screws.

1242¼

Length of Handle (Inches)	Length of Grip (Inches)	Length of Latch Bar (Inches)	Strike (Inches)	Average Net Wgt. Per Doz. (Lbs.)	Dozen in a Case	Average Case Wgt. (Lbs.)
6½	3⅞	3	2x1x5/16	6	6	41

One set in a box with wood screws.

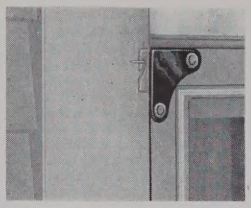
Furnished in Japanned (J); Cadmium (K) or Plated finishes over a rust-resisting base.
Finishes described on page 25

Specify Class Number and Finish

Screen Hangers

For Half Length Screens

Two-thirds full size



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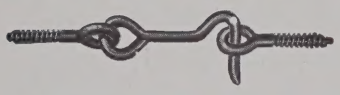


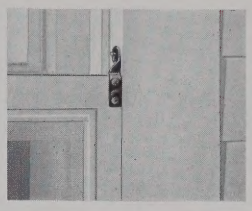
2PJ Wrought Steel

Set consists of two hangers, four nails, two dowel pins and one 1½″ hook and eye.

Screens are swung from dowel pins driven into the casing. The screen frame is mortised to correspond with the slot in the flange.

Plate (Inches)	Average Net Weight Per Gross Sets (Lbs.)	Gross Sets in a Case	Average Case Weight (Lbs.)
2½ x 2½	25½	2	52

One-twelfth gross sets in a carton. Furnished in Japanned finish.



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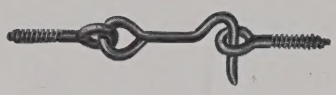


Two-thirds full size

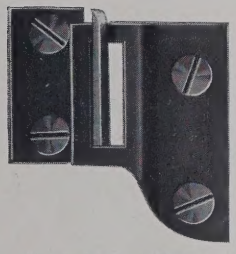
13 Wrought Steel

Set consists of two hangers, two escutcheon pins, four nails and one 1½″ hook and eye.

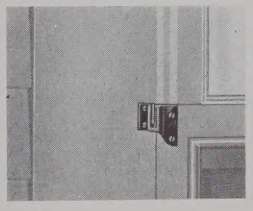
The escutcheon pins are driven into the blind stop, and the hangers fastened with nails to the screen frame.

Plate (Inches)	Average Net Weight Per Gross Sets (Lbs.)
2½ x 9/16	10¾

One-twelfth gross sets in a carton. Furnished in Japanned (J) or Cadmium (K) finish.



Two-thirds full size

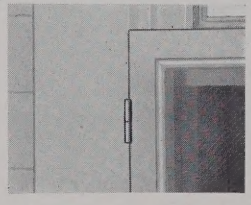


Applied

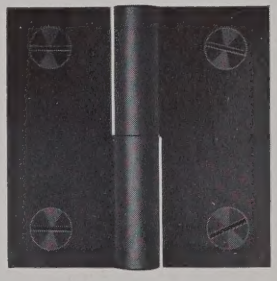
1725 Wrought Steel

Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)	Gross Pairs in a Case	Average Case Weight (Lbs.)
1⅝ x 1¼	1⅛ x 9/16	¾ x 6	15	2	31

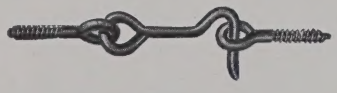
One-twelfth gross pairs in a carton with screws. Furnished in Japanned (J) or Cadmium (K) finish.



Applied



(LH) Two-thirds full size



1733 Wrought Steel

Set consists of one pair loose joint butt hinges with screws and one 1½″ hook and eye.

Also suitable for full length screens.

Size, Open (Inches)	Size of Wood Screws	Average Net Weight Per Gross Sets (Lbs.)
2 x 2	¾ x 7	44

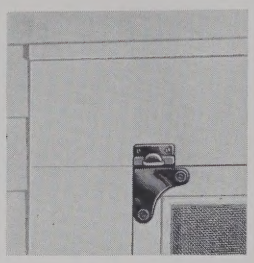
One-twelfth gross sets in a carton. Furnished in Japanned (J) or Cadmium (K, with brass pin) finish.

Specify Class Number, Finish (except 2PJ) and (Hand on 1733)

Screen Hangers

For Full Length Screens

Two-thirds full size



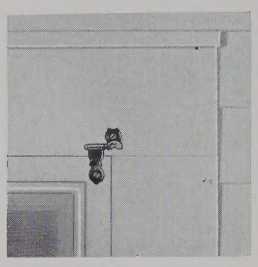
Applied

1PJ Wrought Steel

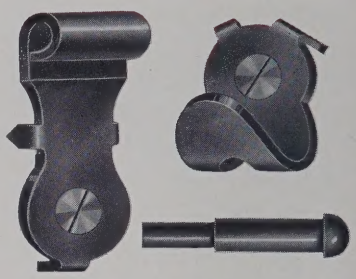
Nails are furnished for attaching angle of hanger to edge of screen.

Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)	Gross Pairs in a Case	Average Case Weight (Lbs.)
3 x 2½	1⅞ x 11/16	⅝ x 6 FH ⅝ x 7 RH	33	2	68

One-twelfth gross pairs in a box with wood screws and nails. Furnished in Japanned finish.



Applied



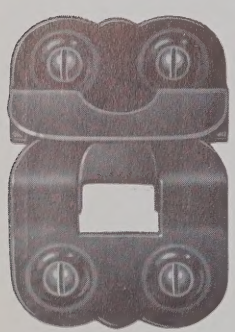
Two-thirds full size

17 Wrought Steel

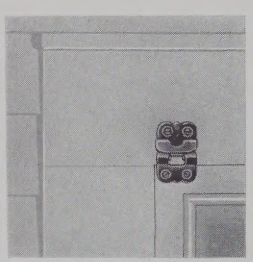
Applied at the top for hanging full length screens or at the side for half length screens. Equipped with gauge marks, preventing mistakes in setting.

Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)	Gross Pairs in a Case	Average Case Weight (Lbs.)
2 x ¾	1 x ¾	¾ x 7	25½	2	53

One-twelfth gross pairs in a box with wood screws. Furnished in Japanned (J) or Cadmium (K) finish.



Two-thirds full size



Applied

18 Wrought Steel
18¼ Wrought Brass

The broad overhanging guard on the upper section prevents the screen from being blown off. The prongs on the lower portion are driven into the top of the screen, locating the hanger accurately.

Eye Plate (Inches)	Hook Plate (Inches)	Size of OH Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)	Gross Pairs in a Case	Average Case Weight (Lbs.)
1 9/16 x 1¾	1⅝ x 1¾	¾ x 6	27½	2	57

One-twelfth gross pairs in a box with wood screws. 18—furnished in Japanned (J) or Cadmium (K) finish.

Applied

Two-thirds full size

1731 Wrought Steel

For screens which fit flush or set in beyond face of casing.

The hook part can be attached to the window frame from the inside and placed in any position, depending upon thickness of screen.

Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)
3 x 1¼	1¾ x 1¼	¾ x 7	35

One-twelfth gross pairs in a box with wood screws. Furnished in Japanned (J) or Cadmium (K) finish.

Specify Class Number and (Finish except on 1PJ *and* 18¼*)*

Screen Hangers

For Full Length Screens

Two-thirds full size

Applied

1704 Wrought Steel
1704¼ Wrought Brass

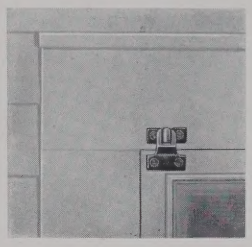
Regularly made without an offset for screens which hang flush with the casing.

Furnished on order with offsets of ⅛", ¼", ⅜" and ½" to take care of screens which set in beyond face of casing.

The offset is the distance between the outer edge of screen and edge of casing.

Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)	
			1704	1704¼
2 11/16 x ⅞	1⅜ x 13/16	¾ x 7	23¾	25¼

One-twelfth gross pairs in a box with wood screws. 1704—furnished in Japanned (J) or Cadmium (K) finish.



1724 Hangers Applied

Two-thirds full size

1724 Wrought Steel
1724¼ Wrought Brass

Eyes only are obtainable, allowing screen and storm sash to be hung on the same hooks.

Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)		Gross Pairs in a Case	Average Case Weight (Lbs.)
			1724	1724¼	1724	1724
2 x 1⅞	1⅞x¾	¾x6	24	26	2½	61

One-twelfth gross pairs in a box with wood screws. 1724—furnished in Japanned (J) or Cadmium (K) finish.

Hangers in Sets

Wrought Steel

Set 1734 consists of one pair hangers 1724 and one 1½" hook and eye.

Set 1734½ consists of one pair hangers 1724 and one cam action fastener 3½, illustrated on page 176.

Wrought Brass

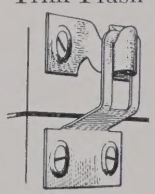
Set 1734¼ consists of one pair hangers 1724¼ and one 1½" hook and eye.

Number	Average Net Weight Per Gross Set (Lbs.)	Gross Sets in a Case	Average Case Weight (Lbs.)
1734	27	2½	69
1734¼	29	...	...
1734½	29	1	29

One-twelfth gross sets in a box with wood screws. 1734, 1734½—furnished in Japanned (J) or Cadmium (K) finish.

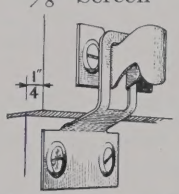
Double Duty Hanger

Screen and Trim Flush

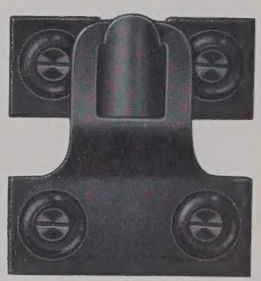


Use the outside hook on top where screen and trim are flush.

1⅛" Trim and ⅞" Screen



Reverse and use the inside hook on top where screens set in beyond face of casing.



Two-thirds full size

1742 Wrought Steel

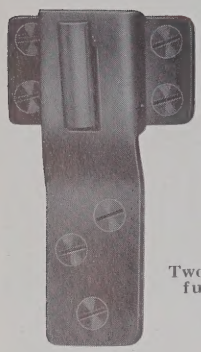
Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)	Gross Pairs in a Case	Average Case Weight (Lbs.)
1⅞ x ¾	1⅞ x ¾	¾ x 6	20	2½	54

One-twelfth gross pairs in a box with wood screws. Furnished in Japanned (J) or Cadmium (K) finish.

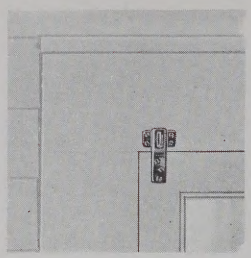
Specify Class Number and (Finish, except on 1704¼, 1724¼ and 1734¼)

Storm Sash Hangers

For Sash Hung Flush with the Casing

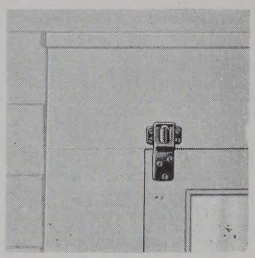


Two-thirds full size

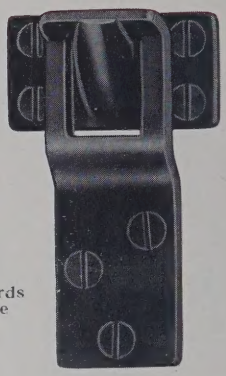


Applied

1711 Wrought Steel



Applied



Two-thirds full size

1715 Wrought Steel

Will hold sash snugly to the window frame preventing rattling. The shape of the hook allows the sash to be easily hung from the inside without holding it far from the building.

Eyes only are obtainable, allowing storm sash and screen to hang on the same hooks.

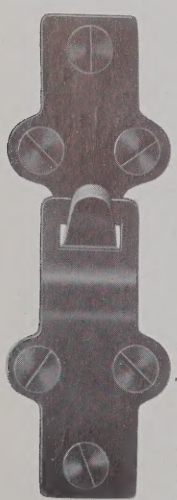
Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)	Gross Pairs in a Case	Average Case Weight (Lbs.)
2⅝ x ¾	1⅝ x 13/16	¾ x 7	35	2	72

One-twelfth gross pairs in a box with wood screws. Furnished in Japanned (J) or Cadmium (K) finish.

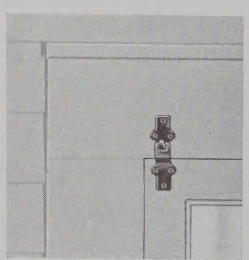
Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)	Gross Pairs in a Case	Average Case Weight (Lbs.)
2¾ x 1	1 11/16 x ⅞	¾ x 7	38¼	2	78

One-twelfth gross pairs in a box with wood screws. Furnished in Japanned (J) or Cadmium (K) finish.

For Heavy Sash

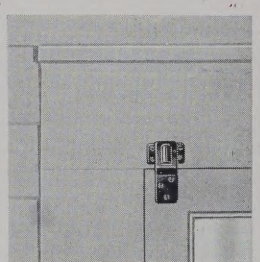


Two-thirds full size

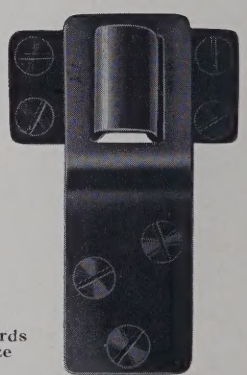


Applied

1716 Wrought Steel
1716¼ Wrought Brass



Applied



Two-thirds full size

1717 Wrought Steel

The shape of the hook allows the sash to be easily hung from the inside without holding it far from the building.

Will hold sash snugly to the window frame preventing rattling.

Eyes only are obtainable, allowing storm sash and screen to be hung on the same hooks.

Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)	Gross Pairs in a Case	Average Case Weight (Lbs.)
2¼ x 1¼	1¾ x 1¼	¾ x 7	42	2	85

One-twelfth gross pairs in a box with wood screws. 1716 furnished in Japanned (J) or Cadmium (K) finish.

Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)	Gross Pairs in a Case	Average Case Weight (Lbs.)
2¾ x 1	1 11/16 x ⅞	¾ x 7	39⅛	2	80

One-twelfth gross pairs in a box with wood screws. Furnished in Japanned (J) or Cadmium (K) finish.

Specify Class Number and (Finish except on 1716¼)

Storm Sash Hangers

For Various Conditions

Two-thirds full size

Applied

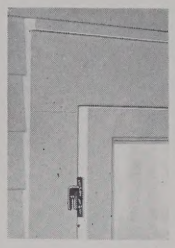
1706 Wrought Steel

A set consists of four hangers with screws.

Applied on the inside for sash set either flush or outside the casing. Can be applied on a strip as narrow as 11/16". Ideal for hanging solid shutters when closing a summer home for the season.

Plate (Inches)	Size of RH Wood Screws	Average Net Weight Per Gross Sets (Lbs.)
2½ x ⅝	1 x 9	43¼

One-twelfth gross sets in a box with wood screws. Furnished in Japanned (J) or Cadmium (K) finish.



Applied

Two-thirds full size

1708 Wrought Steel

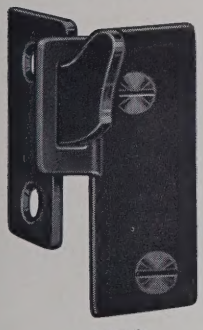
A set consists of four hangers with screws.

Applied on the outside for sash set outside the casing. Elliptical slots serve to pull sash in tight.

Plate (Inches)	Size of RH Wood Screws	Average Net Weight Per Gross Sets (Lbs.)
2½ x ⅝	1 x 9	45

One-twelfth gross sets in a box with wood screws. Furnished in Japanned (J) or Cadmium (K) finish.

For Light Sash ¾" to 1⅛" in thickness

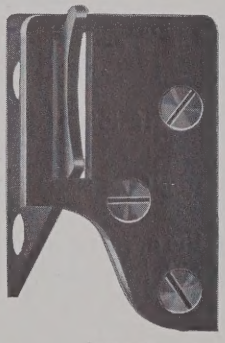


1713

Applied

Two-thirds full size

For Heavy Sash 1⅛" or more in thickness



1714

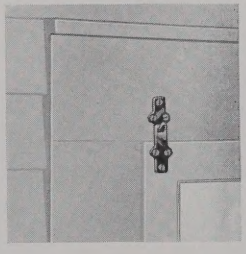
1713 Wrought Steel
1714 Wrought Steel

For sash where the head casing will not permit the use of surface type hangers.

Number	Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)
1713	2 3/16 x 1 5/8	1¾ x 1 11/16	⅞ x 8	45
1714	2½ x 1 9/16	2¼ x 1 9/16	1 x 7	60

One-twelfth gross pairs in a box with wood screws. Furnished in Japanned (J) or Cadmium (K) finish.

For Heavy Sash which is ⅛" thicker than casing



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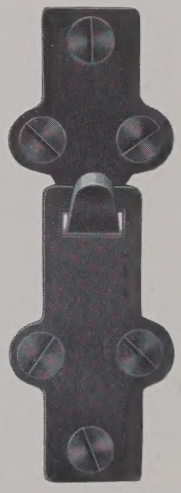


Two-thirds full size

1720 Wrought Steel
1720¼ Wrought Brass

Will hold the sash snugly to the window frame, preventing rattling. Eyes only are obtainable, allowing storm sash and screen to be hung on same hooks.

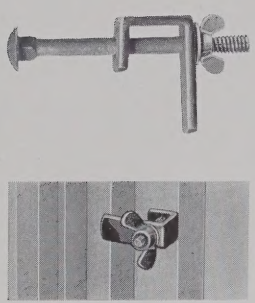
Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)
2 15/16 x 1¼	1¾ x 1¼	¾ x 7	42

One-twelfth gross pairs in a box with wood screws. 1720 furnished in Japanned (J) or Cadmium (K) finish.

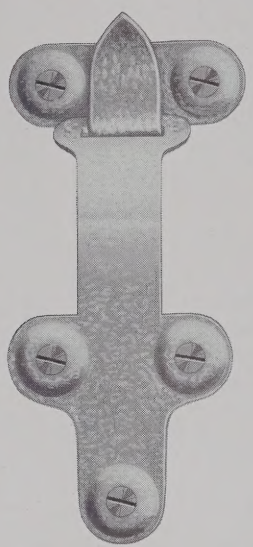
Specify Class Number and (Finish except on 1720¼)

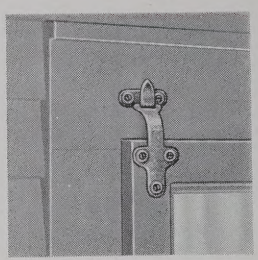
Storm Sash Hangers

For Sash Hung Outside the Casing

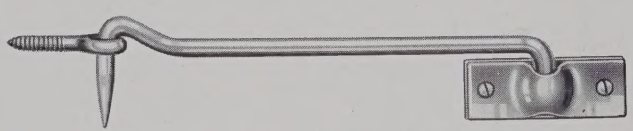


Fastener Applied
Locked position





Applied



One-half full size

Set 1732 Wrought Steel

A set consists of two hangers, two fasteners and one 5″ ventilating hook.

The hanger eye is so shaped as to brace the sash at the corner, being attached to both stile and rail. The hanger hook is flared out to facilitate hanging the sash, with an extra long lip to prevent the eye from slipping off.

The ventilating hook is made with a friction type ball and socket joint which holds the hook in any position. The point of the ventilating hook is shaped to make a wedge fit in the eye, preventing rattling.

The storm sash is locked securely in the closed position by two wing nut fasteners, one on each side.

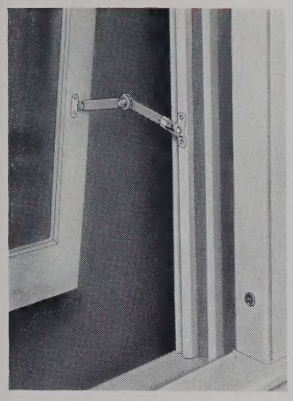
For sash hung flush with the casing, suggest using one pair hangers 1716 (page 190) with fasteners and hook and eye illustrated above. Furnished under set **1732½.**

Eye Plate (Inches)	Hook Plate (Inches)	Size of Wood Screws	Average Net Weight Per Gross Sets (Lbs.)
4⅜ x 2⅝	2½ x ⅞	1 x 7	103

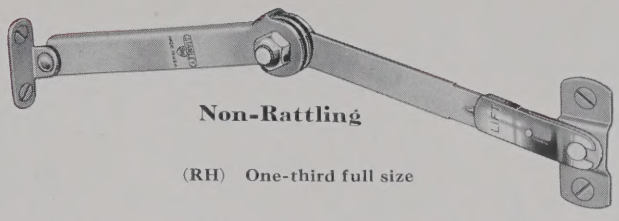
One set in a box with wood screws. Furnished in Galvanized finish.

Specify Class Number

Storm Sash Fasteners

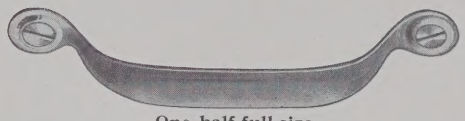


(RH) Applied Sash open

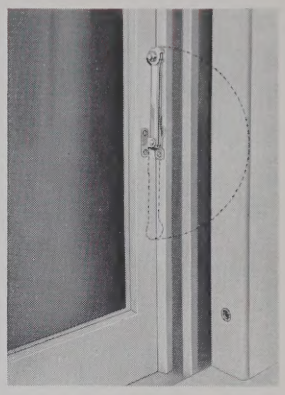


Non-Rattling

(RH) One-third full size



One-half full size



(RH) Applied Sash closed
Dotted line indicates locked position

Set 1727 Wrought Steel

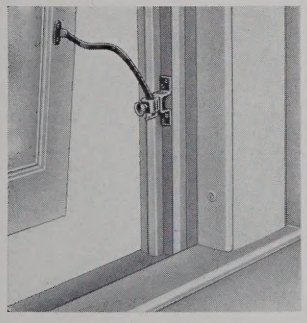
A set consists of one pair of fasteners and one pull.

Can be used on sash hung outside or flush with the casing. Permits opening the sash to any position for ventilation. A fastener is applied to each side of the sash and to the screen stops. Fastener at no time interferes with operation of the window. The adjustable friction element which is of special construction and material provides positive holding with no danger of deterioration from the weather. It is not necessary to unscrew any parts when taking off storm sash.

Not reversible; when ordered singly, specify hand.

Length (Inches)		Size of Wood Screws		Average Net Weight Per Dozen Sets (Lbs.)
Fastener	Pull	Fastener	Pull	
9	4⅞ x ⅝	1 x 7	3 x 7	6

One set in an envelope with wood screws, one dozen sets in a box. Furnished in Cadmium finish.



(RH) Applied Sash open

Non-Rattling

(RH) One-third full size

(RH) Applied
Sash closed and locked

1729 Wrought Steel

For storm sash especially where sliding screens are used. Can be used on sash hung outside or flush with the casing. Permits opening the sash to any position for ventilation. A fastener is applied to each side of the sash, the base being attached in the lower part of the upper sash runway. Arm at no time interferes with operation of the lower window. The thumb screw locks the fastener in any position and prevents rattling. It is not necessary to unscrew any parts when taking off storm sash.

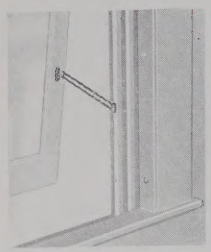
Not reversible; when ordered singly, specify hand.

Arm (Inches)	Projection (Inches)	Base Plate (Inches)	Size of Wood Screws	Average Net Weight Per Dozen Pairs (Lbs.)
9 x ½	2⅝	2 15/16 x ⅞	⅞ x 7	11

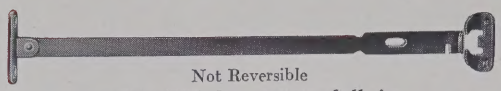
One-half dozen pairs in a box (one-half right hand) with wood screws. Furnished in Cadmium finish.

Specify Class Number

Storm Sash Fasteners



(RH) Applied
Sash open



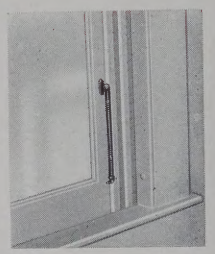
Not Reversible
10″ (RH) One-quarter full size

1719 Wrought Steel

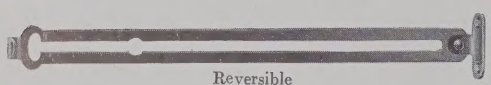
The end slot in the arm is shaped to make a wedge fit in the guide, preventing rattling.

Furnished in two lengths, 5″ for sash under 4′ in height; 10″ for sash over 4′.

Catch plate can be applied on a strip as narrow as $^{11}/_{16}$″.

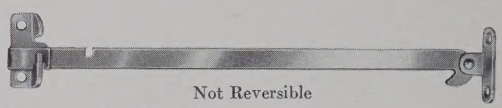


(RH) Applied
Sash closed and locked



Reversible
One-quarter full size

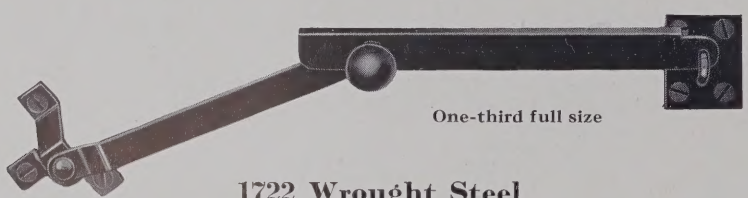
1718 Wrought Steel



Not Reversible
(LH) One-quarter full size

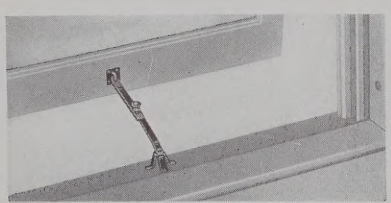
1721 Wrought Steel

A fastener is applied to each side of the sash and casing.
When sash is closed the fasteners are firmly locked by engaging with the pin in the casing.

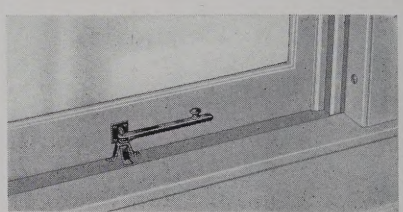


One-third full size

1722 Wrought Steel



Applied Sash open



Applied Sash closed and locked

Applied in the center of the window sill and the bottom rail of the sash.

When closed the fastener folds and the flange locks the sash preventing it from being opened from the outside.

Number	Length (Inches)	Size of Wood Screws	Average Net Weight Per Gross Pairs (Lbs.)	Average Net Weight Per Gross (Lbs.)	Gross Pairs in a Case	Average Case Weight (Lbs.)
1718	10	1 x 7	65	....	1	67
1719	**5**	1 x 7	44	....	..	..
	10	1 x 7	68½	....	1	70
1721	10	1 x 7	63½	....	..	..
1722	12⅜	1 x 7	....	60½	..	..

One-twelfth gross pairs (1722 single) in a box; (1719, 1721 one-half right hand) with pins and wood screws.

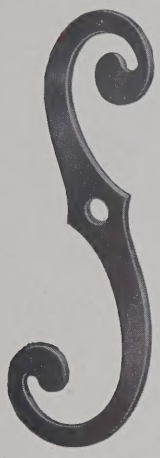
Furnished in Japanned (J) or Cadmium (K) finish

***Specify Class Number, Finish and (Size on* 1719)**

Blind Holdbacks

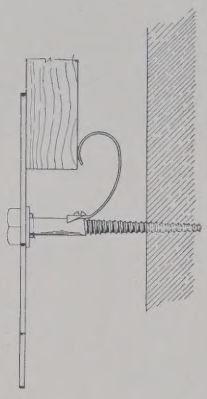
For Blinds or Shutters 1⅛″ in Thickness

"S" Pattern



One-third full size

1685, 1685½, etc. 6¾″



Showing application
Non-rattling spring

Hand Wrought with Hammered Edges

One-third full size

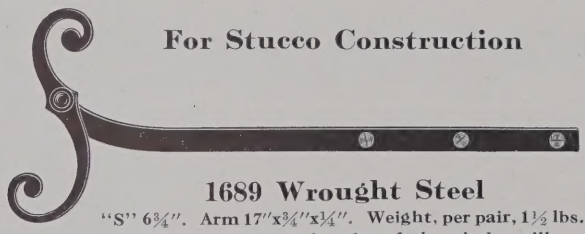
1693, 1693½, etc. 6⅞″

Wrought Steel

For holding blinds open on frame, brick or stucco construction.

With Non-Rattling Spring	Without Non-Rattling Spring	With Non-Rattling Spring	Without Non-Rattling Spring
1685½ With Lag Screw	**1685** With Lag Screw	**1693½** With Lag Screw	**1693** With Lag Screw
1686½ With Back Plate	**1686** With Back Plate	**1694½** With Back Plate	**1694** With Back Plate
1687½ With Drive Pin	**1687** With Drive Pin	**1695½** With Drive Pin	**1695** With Drive Pin

For Stucco Construction



1689 Wrought Steel

"S" 6¾". Arm 17"x¾"x¼". Weight, per pair, 1½ lbs.
Arm is applied on the edge of the window sill

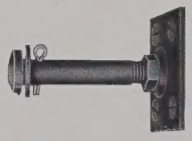
Lag Screw

4″ x ⅜″ when used with non-rattling spring
4″ x 5/16″ when used without non-rattling spring
Other lengths on order

Drive Pin

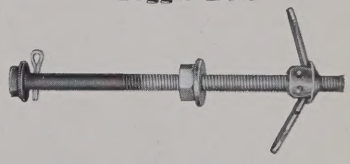
5″ x ⅜″ when used with non-rattling spring
4⅜″ x ⅜″ when used without non-rattling spring
Other lengths on order

Back Plate



Pin, 2⅝″ x 13/32″
Plate, 2″ x 2″
Wood Screws, 1″ x No. 10
Other lengths on order

Toggle Bolt



Furnished on order
6″ x ⅜″ when used with non-rattling spring
6″ x 5/16″ when used without non-rattling spring

1685, 1685½, etc. Furnished in Cadmium (K) or Dead Black (KJ1) finish
Also Primed (P) for painting.

1693, 1693½, etc. Furnished in Dead Black (KJ1) finish

One pair in a box with necessary fittings. Approximate weight per pair, ¾ lbs.

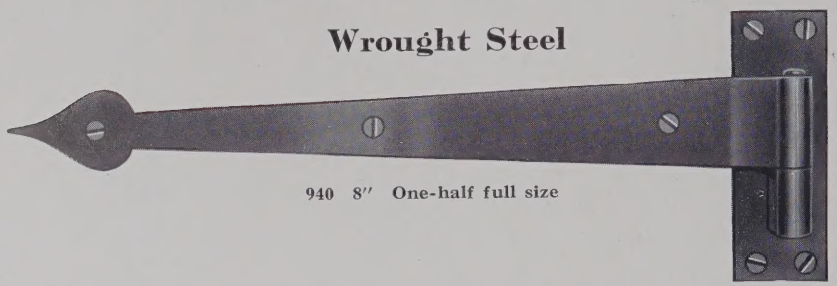
Specify Class Number and (Finish on **1685, 1685½,** *etc.)*

Blind Hinges

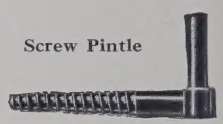
For 1⅛″ Blinds Hung Flush with the Casing

For Frame Construction

Wrought Steel



940 8″ One-half full size



Screw Pintle

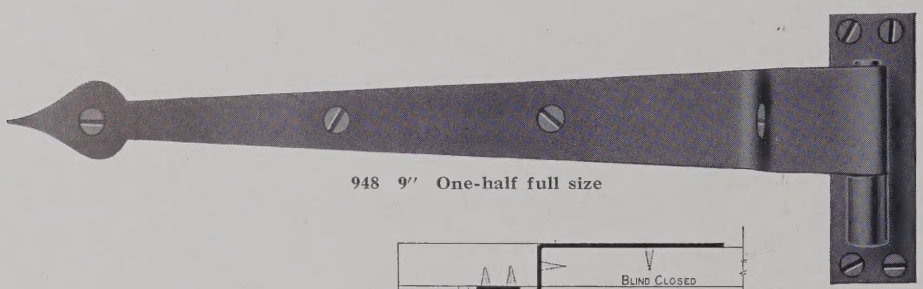
Lengths 2½″ and 4″

940 With Plate Pintle **940½ With Screw Pintle**

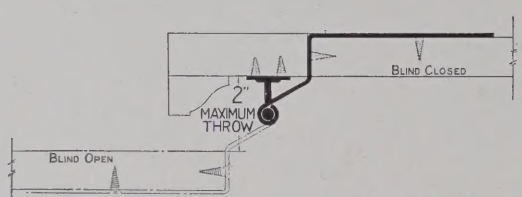
Furnished on order with a mortise pintle. Heavier gauges of metal furnished on order.

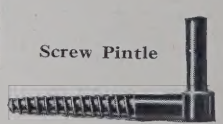
Size, Length of Strap (Inches)	Width of Strap at Joint (Inches)	Plate Pintle (Inches)	Offset (Inches)	Throw (Inches)	Gauge of Metal		Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	
					Strap	Plate Pintle		With Screws	Without Screws
6	1	3⅛ x 1⅛	1 1/16	2	.092	.077	6–1 x 9	72	69
8	1¼	3⅛ x 1⅛	1 1/16	2	.092	.077	6–1 x 10	105	102
10	1¼	3⅞ x 1¼	1 1/16	2	.092	.084	7–1 x 10	122	119
12	1½	3⅞ x 1¼	1 1/16	2	.104	.084	8–1 x 12	161	157
16	1¾	3⅞ x 1¼	1 1/16	2	.104	.084	8–1 x 12	242	238

Two pairs in a box. Plain Steel (PS) without screws; Cadmium (K), Dead Black (J1) or (KJ1) finish with wood screws.



948 9″ One-half full size





Screw Pintle

Lengths 2½″ and 4″

948 With Plate Pintle **948½ With Screw Pintle**

Hinge straps show when blinds are open. Heavier gauges of metal furnished on order.

Size, Length of Strap (Inches)	Width of Strap at Joint (Inches)	Plate Pintle (Inches)	Offset (Inches)	Throw (Inches)	Gauge of Metal		Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	
					Strap	Plate Pintle		With Screws	Without Screws
9	1¼	3⅞ x 1¼	1 1/16	2	.092	.084	7–1 x 10	133	130
11	1½	3⅞ x 1¼	1 1/16	2	.104	.084	8–1 x 12	172	168
15	1¾	3⅞ x 1¼	1 1/16	2	.104	.084	8–1 x 12	255	251

Two pairs in a box. Plain Steel (PS) without screws; Cadmium (K), Dead Black (J1) or (KJ1) finish with wood screws.

Specify Class Number, Finish and Size on (**940½, 948½, *also Length of Pintle***)

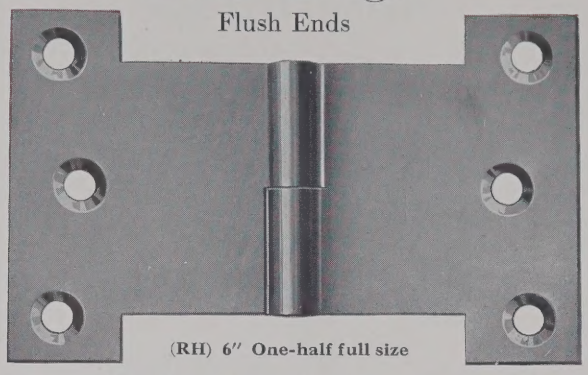
Special offsets on order; a sketch showing construction is necessary.

Blind Hinges

Loose Joint

Flush Ends

Specify Hand



(RH) 6″ One-half full size

831 Wrought Steel

Screw holes are located for blinds 1⅛″ and over in thickness. Ends are sealed, making them water-tight.

Size, Width Open (Inches)	Length of Joint (Inches)	Width between Flanges (Clearance) (Inches)	Gauge of Metal	Size of Flange (Inches)	Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	
						With Screws	Without Screws
5	1¾	3⅜	.105	2⁷⁄₁₆ x ¹³⁄₁₆	6–1 x 9	84	70
5½	1¾	3⅞	.110	2⁷⁄₁₆ x ¹³⁄₁₆	6–1 x 9	92	80
6	2	4³²⁄₃₂	.115	2⅞ x 1	6–1¼ x 10	132	124
7	2¼	4¾	.120	3⅜ x 1 ⅛	6–1¼ x 10	163	154
8	2½	5¾	.148	3⅝ x 1 ⅛	6–1¼ x 12	227	218
10	2½	7¾	.148	3⅝ x 1 ⅛	6–1¼ x 12	234	225
12	2½	9¾	.148	3⅝ x 1 ⅛	6–1¼ x 12	314	305

Two pairs in a box (one-half right hand). Plain Steel (PS) without screws; Cadmium (K), Dead Black (J1) or (KJ1) finish with wood screws.

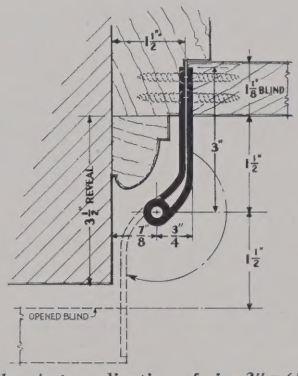
For 1⅛″ Blinds Set in a Reveal

Three Knuckles

Loose Pin

Oval Tip

3″ x 6″
Two-thirds
full size



Showing application of size 3″ x 6″
One-quarter full size

845 Wrought Steel

The offset leaves permit the inner edge of the blind to be carried clear of the opening when blind is opened full. Regularly furnished with a ¾″ offset. Special offsets on order. A sketch showing construction is necessary. Finishes (K) and (KJ1) are furnished with a brass pin.

Size, Open (Inches)	Maximum Clearance on 1⅛″ Blinds (Inches)	Gauge of Metal	Quantity and Size of Wood Screws	Average Net Weight Per 100 Pairs (Lbs.)	
				With Screws	Without Screws
3 x 3½	1½	.123	6–1 x 9	115	112
3 x 4	1¾	.123	8–1 x 9	126	121
3 x 5	3	.123	8–1 x 9	158	146
3 x 6	4	.123	8–1 x 9	172	160
3 x 7	5	.123	8–1 x 9	196	184
3 x 8	6	.123	8–1 x 9	213	201

Two pairs in a box. Plain Steel (PS) without screws; Cadmium (K), Dead Black (J1) or (KJ1) finish with wood screws.

Specify Class Number, Finish, Size and (Hand on 831, see page 17)

Blind Hinges

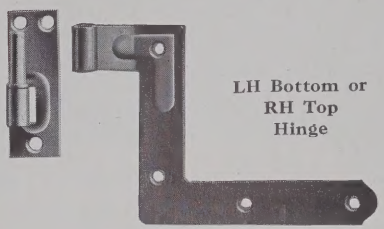
For 1⅛″ Blinds Hung Flush with the Casing

Wrought Steel

For Frame Construction

1640 Plain Steel without screws
Sc1640 Plain Steel with screws
1360 Galvanized without screws
Sc1360 Galvanized with screws

Furnished on order with a ½″ offset, where there is no trim to clear, giving a throw or clearance of 1″.



LH Bottom or RH Top Hinge

One-quarter full size

For Brick Construction

1644 Plain Steel without screws
Sc1644 Plain Steel with screws
1364 Galvanized without screws
Sc1364 Galvanized with screws

For blinds where the construction has a deep reveal. Furnished on order with a 1¾″ offset, giving a throw or clearance of 3⅜″.

Hinges measure 4⅜₁₆″ on the vertical, 5″ on the horizontal, width 1″.
Plate pintles for 1360 and 1364 furnished on order with bronze pins.

For complete sets of hinges with fasteners, see page 202.

1640, 1360

Plate Pintle (Inches)	Offset (Inches)	Throw (Inches)	Size of Wood Screws	Pairs in a Case	Average Case Weight (Lbs.)
3⅛ x 1⅛	1⅛₁₆	2	1 x 8	25	20

1640, 1360—packed bulk without screws; Sc1640, Sc1360—10 pairs in a box with screws. Wgt, 9 lbs.

1644, 1364

Plate Pintle (Inches)	Offset (Inches)	Throw (Inches)	Size of Wood Screws	Pairs in a Case	Average Case Weight (Lbs.)
3⅛ x 1⅛	2⅛	4⅛	1 x 8	25	23

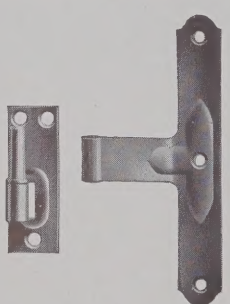
1644, 1364—packed bulk without screws; Sc1644, Sc1364—10 pairs in a box with screws. Wgt, 12 lbs.

Center Hinges

For Frame Construction

1642 Plain Steel without screws
1342 Galvanized without screws

Furnished on order with a ½″ offset, where there is no trim to clear, giving a throw or clearance of 1″.



One-quarter full size

For Brick Construction

1646 Plain Steel without screws
1346 Galvanized without screws

For blinds where the construction has a deep reveal. Furnished on order with a 1¾″ offset, giving a throw or clearance of 3⅜″.

Length 5⅞″, width ⅞″.

For use with hinges 1640, 1644, etc., where the blinds require three hinges.
Plate pintles for 1342 and 1346 furnished on order with bronze pins.

1642, 1342

Plate Pintle (Inches)	Offset (Inches)	Throw (Inches)	Size of Wood Screws	Pairs in a Case	Average Case Weight (Lbs.)
3⅛ x 1⅛	1⅛₁₆	2	1 x 8	25	21

Packed bulk without screws.

1646, 1346

Plate Pintle (Inches)	Offset (Inches)	Throw (Inches)	Size of Wood Screws	Pairs in a Case	Average Case Weight (Lbs.)
3⅛ x 1⅛	2⅛	4⅛	1 x 8	25	32

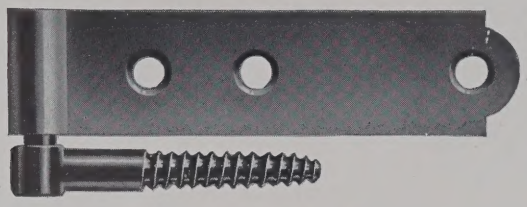
Packed bulk without screws.

Specify Class Number

Special offsets on order; a sketch showing construction is necessary.

Blind Hinges

For 1⅛″ Blinds Hung Flush with the Casing
For Frame Construction



5″ One-half full size

Set 1620x1666 Wrought Steel

Plain Steel (PS) without screws
Galvanized (R) with wood screws

A set consists of four hinges and four screw pintles; the equipment for one pair of blinds.
Furnished with screw pintles 2″, 2½″ or 3″ in length.

For complete sets of hinges with fasteners, see page 203.

Size of Hinge (Inches)	Maximum Throw (Inches)	Size of Wood Screws	Sets in a Case	Average Case Weight (Lbs.)
4 x 1	13/32	1 x 8	50	45
5 x 1	13/32	1 x 8	50	50

Ten sets in a box. Plain Steel (PS) without screws, Galvanized (R) with wood screws.

Specify Class Number, Finish, Size of Hinge and Length of Screw Pintle

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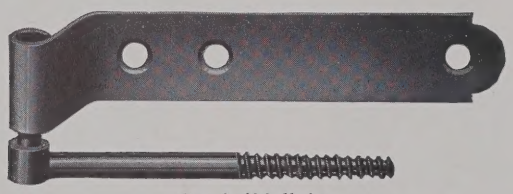
For 1⅛″ Blinds Hung Flush with the Casing with Trim to Clear
For Frame Construction



One-half full size

Set 1624x1666 Wrought Steel

Plain Steel (PS) without screws
Galvanized (R) with wood screws

Hinges measure 5″ x 1″.

A set consists of four hinges and four screw pintles; the equipment for one pair of blinds.
Screw pintles furnished separately under **1666.**

Offset (Inches)	Throw (Inches)	Length of Screw Pintle (Inches)	Size of Wood Screws	Sets in a Case	Average Case Weight (Lbs.)
½	15/16	2	1 x 8	50	44
¾	1 3/8	2½	1 x 8	50	46
1	1 15/16	3	1 x 8	50	48
1¼	2 3/8	3	1 x 8	50	51
1½	2 7/8	3½	1 x 8	50	52
1¾	3 3/8	3½	1 x 8	50	62
2	3 7/8	4	1 x 8	50	67

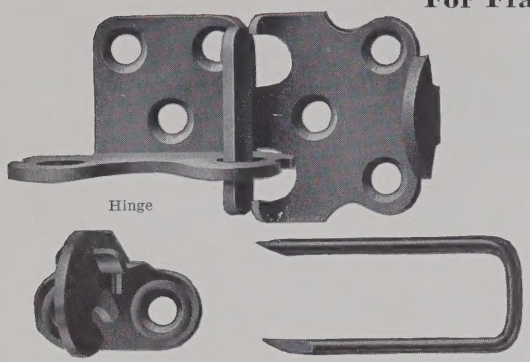
Ten sets in a box. Plain Steel (PS) without screws, Galvanized (R) with wood screws.

Specify Class Number, Finish and Offset

Blind Hinges

For 1⅛″ Blinds Hung Flush with the Casing

For Frame Construction



One-half full size

Set 1647½ Wrought Steel

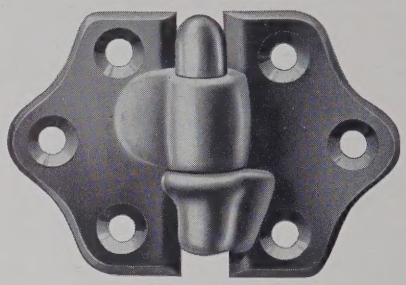
Plain Steel (PS) or Cadmium (K) finish

A set consists of four hinges, two catches and two staples; the equipment for one pair of blinds.

The blinds cannot be removed except when opened wide enough to allow the hook plate to be lifted clear of the eye plate. Hinges are reversible and automatically hold the blinds open.

Size of Hinge (Inches)	Size of Wood Screws	Average Net Weight Per 100 Sets (Lbs.)	
		With Screws	Without Screws
1¾ x 3	1 x 8	95	90

One set in a box with or without screws.



(RH) One-half full size

Set 1638 Cast Iron

Plain Iron (PS) or Galvanized (R) finish

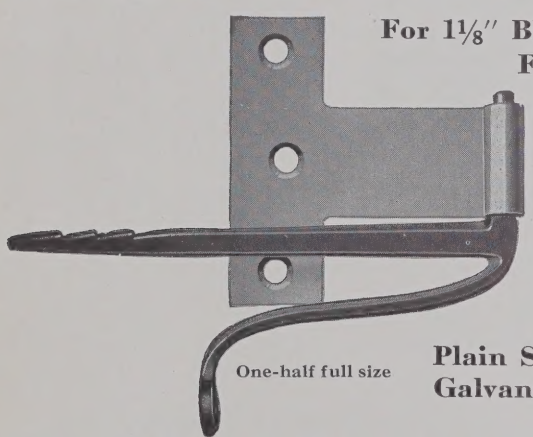
A set consists of four hinges; the equipment for one pair of blinds.

Size of Hinge (Inches)	Size of Wood Screws	Average Net Weight Per 100 Sets (Lbs.)
2 x 3	1¼ x 10	86

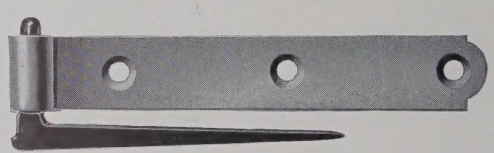
Ten sets in a box (one-half right hand) without screws.

For 1⅛″ Blinds Hung Outside the Casing

For Brick Construction



One-half full size



One-half full size

Plain Steel (PS) without screws
Galvanized (R) with wood screws

Set 1612x1650 Wrought Steel

For blinds where the construction has a deep reveal.

A set consists of four hinges and four drive pintles; the equipment for one pair of blinds.

Size of Hinge (Inches)	Length of Drive Pintle (Inches)	Maximum Throw (Inches)	Size of Wood Screws	Sets in a Case	Average Case Weight (Lbs.)
3 x 2¾	5	4⅞	1 x 8	50	63

Ten sets in a box. Plain Steel (PS) without screws, Galvanized (R) with wood screws.

Set 1616x1658 Wrought Steel

Drive pintles furnished separately under **1658**, sizes 3¼″, 4½″ and 5½″.

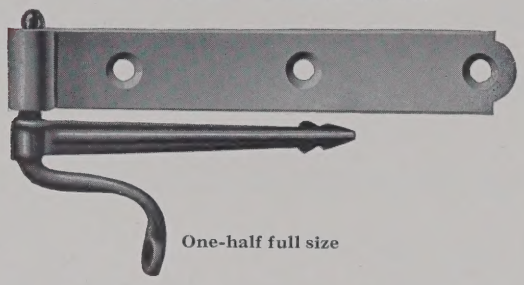
Size of Hinge (Inches)	Length of Drive Pintle (Inches)	Maximum Throw (Inches)	Size of Wood Screws	Sets in a Case	Average Case Weight (Lbs.)
5 x ¾	3¼	1½	1 x 8	50	39

Ten sets in a box. Plain Steel (PS) without screws, Galvanized (R) with wood screws.

***Specify Class Number and Finish** (on 1647½, also state whether with or without screws)*

Blind Hinges

For 1⅛″ Blinds Hung Outside the Casing
For Frame Construction



One-half full size

Set 1616x1650 Wrought Steel

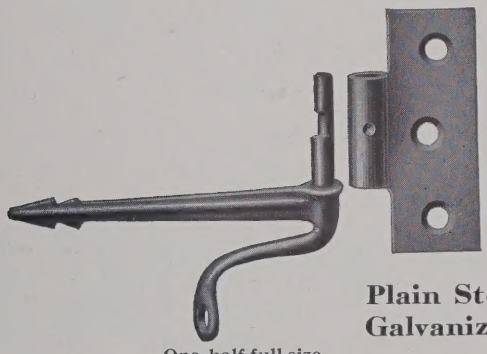
Plain Steel (PS) without screws
Galvanized (R) with wood screws

A set consists of four hinges and four drive pintles; the equipment for one pair of blinds. Drive pintle furnished separately under **1650**, sizes 3¼″, 4″ and 5″.

Size of Hinge (Inches)	Length of Drive Pintle (Inches)	Maximum Throw (Inches)	Size of Wood Screws	Sets in a Case	Average Case Weight (Lbs.)
5 x ¾	3¼	1½	1 x 8	50	39

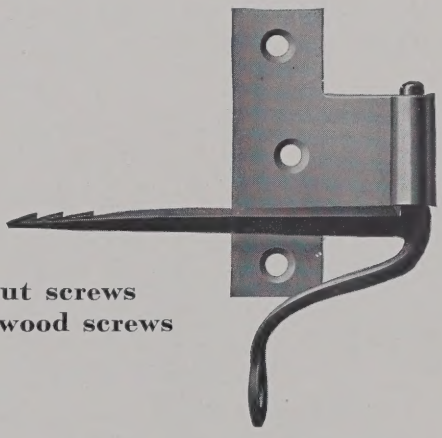
Ten sets in a box. Plain Steel (PS) without screws, Galvanized (R) with wood screws.

For 1⅛″ Blinds Hung Outside the Casing
For Frame Construction



One-half full size

Plain Steel (PS) without screws
Galvanized (R) with wood screws



One-half full size

Set 1606x1652 Wrought Steel

A set consists of four hinges and four drive pintles; the equipment for one pair of blinds.

Blinds cannot be blown off because of the safety feature which allows them to be removed in one position only.

For complete sets of hinges with fasteners, see page 203.

Drive pintle furnished separately under **1652**.

Size of Hinge (Inches)	Length of Drive Pintle (Inches)	Maximum Throw (Inches)	Size of Wood Screws	Sets in a Case	Average Case Weight (Lbs.)
2½ x 1⅛	3¼	1½	1 x 8	50	33

Ten sets in a box. Plain Steel (PS) without screws, Galvanized (R) with wood screws.

Set 1608x1650 Wrought Steel

A set consists of four hinges and four drive pintles; the equipment for one pair of blinds.

Size of Hinge (Inches)	Length of Drive Pintle (Inches)	Maximum Throw (Inches)	Size of Wood Screws	Sets in a Case	Average Case Weight (Lbs.)
3 x 2	4½	2¾	1 x 8	50	55

Ten sets in a box. Plain Steel (PS) without screws, Galvanized (R) with wood screws.

Specify Class Number and Finish

Blind Hardware Sets

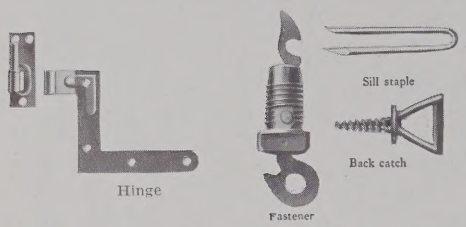
One Set in a Box with Wood Screws

Complete Equipment for One Pair of Blinds

Wrought Steel

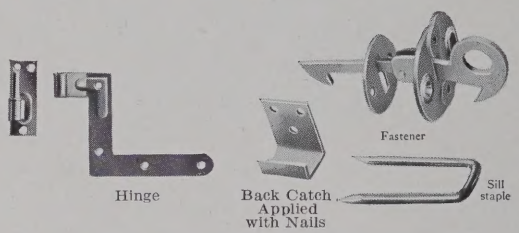
For Frame Construction

For 1⅛″ Blinds Hung Flush with the Casing



With Wood Screws

Set 1640x1680 Plain Steel
Set 1360x1380 Galvanized



With Wood Screws

Set 1640x1682 Plain Steel
Set 1360x1382 Galvanized

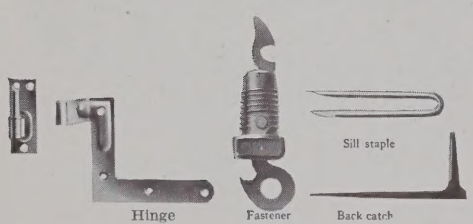
A set consists of two pairs of hinges and two complete fasteners; the equipment for one pair of blinds.

One set in a box with wood screws.
25 sets in a case. Weight, 60 lbs.

One set in a box with wood screws and nails.
25 sets in a case. Weight, 70 lbs.

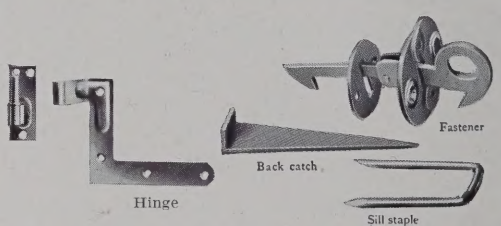
For Brick Construction

For 1⅛″ Blinds Hung Flush with the Casing



With Wood Screws

Set 1644x1680½ Plain Steel
Set 1364x1380½ Galvanized



With Wood Screws

Set 1644x1682½ Plain Steel
Set 1364x1382½ Galvanized

A set consists of two pairs of hinges and two complete fasteners; the equipment for one pair of blinds.

One set in a box with wood screws.
25 sets in a case. Weight, 73 lbs.

One set in a box with wood screws.
25 sets in a case. Weight, 77 lbs.

Illustrations one-quarter full size

Specify Class Number

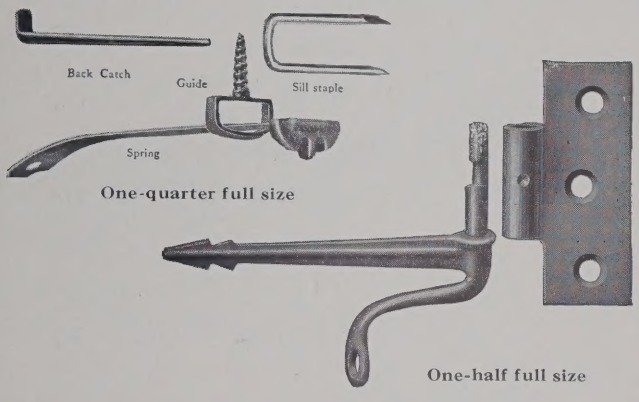
Blind Hardware Sets

One Set in a Box with Wood Screws
Complete Equipment for One Pair of Blinds

Wrought Steel

For Frame Construction
For 1⅛″ Blinds Hung Outside the Casing

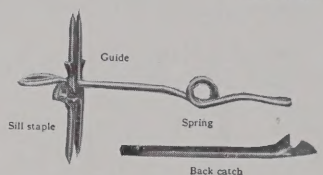
"Casco"



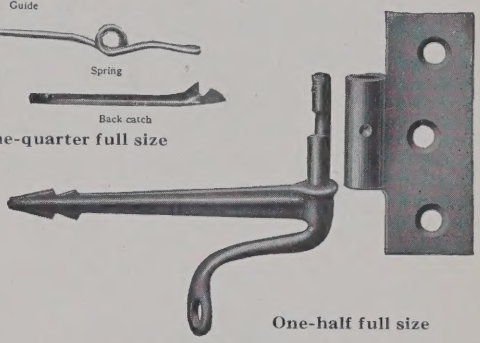
One-quarter full size

One-half full size

"Revere"



One-quarter full size



One-half full size

Hinges described on page 201; fasteners on page 204.

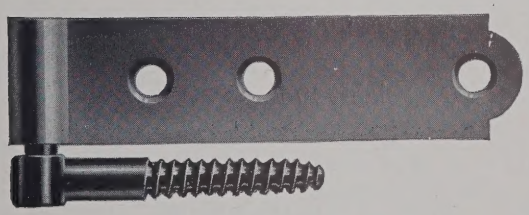
A set consists of two pairs of hinges and two complete fasteners; the equipment for one pair of blinds.

25 sets in a case. Weight, 24 lbs.

25 sets in a case. Weight, 22 lbs.

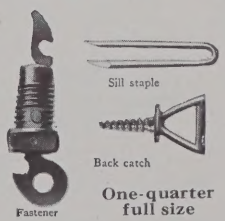
For Frame Construction
For 1⅛″ Blinds Hung Flush with the Casing

"Nutmeg 4″"



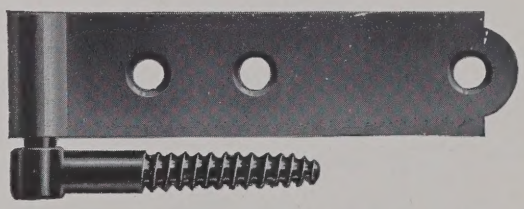
One-half full size

Hinges, 4″ x 1″
Screw Pintles, 2½″



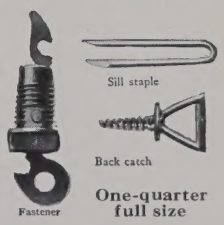
One-quarter full size

"Nutmeg 5″"



One-half full size

Hinges, 5″ x 1″
Screw Pintles, 3″



One-quarter full size

Hinges described on page 199; fasteners on page 204.

A set consists of two pairs of hinges and two complete fasteners; the equipment for one pair of blinds.

25 sets in a case. Weight, 28 lbs.

25 sets in a case. Weight, 31 lbs.

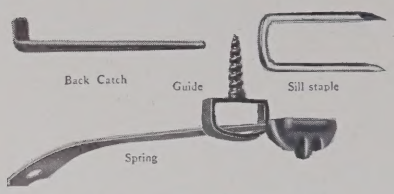
Plain Steel (PS) with wood screws
Galvanized (R) with wood screws

Specify Name and Finish

Blind Fasteners

Wrought Steel

For Boston Pattern Blinds

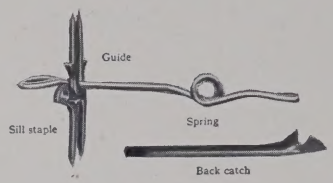


One-quarter full size

Set 1672

Japanned (J) or Galvanized (R) finish

For Boston Pattern Blinds



One-quarter full size

Set 1692

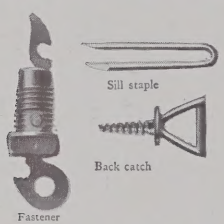
Japanned (J) or Galvanized (R) finish

A set consists of two complete fasteners; the equipment for one pair of blinds.
For blinds hung close to the screen or where there is not sufficient room to use other types of fasteners. Applied underneath the blind; mortise must be provided in lower blind rail at least 7″ long to a depth of 5/8″.
Parts furnished separately on order.

10 sets in a box without screws. 100 sets in a case. Case weights: Set 1672, 39 lbs.; Set 1692, 33 lbs.

For Frame Construction

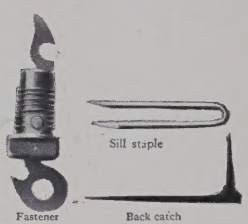
For 1⅛″ Blinds



One-quarter full size

Set 1680 Plain Steel
Set 1380 Galvanized

For Brick Construction



One-quarter full size

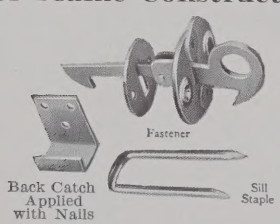
Set 1680½ Plain Steel
Set 1380½ Galvanized

A set consists of two complete fasteners; the equipment for one pair of blinds.
Parts furnished separately on order.

10 sets in a box. 100 sets in a case. Case weight, 40 lbs.

For Frame Construction

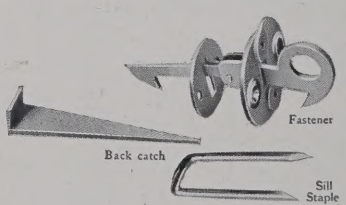
For 1⅛″ Blinds



One-quarter full size

Set 1682 Plain Steel without screws
Set 1382 Galvanized with wood screws and nails

For Brick Construction



One-quarter full size

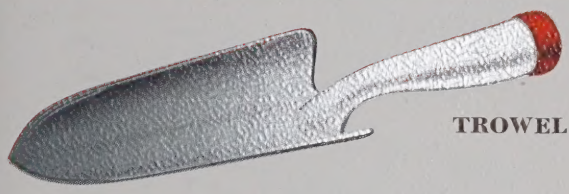
Set 1682½ Plain Steel without screws
Set 1382½ Galvanized with wood screws and nails

A set consists of two complete fasteners; the equipment for one pair of blinds.
The fastener is of gravity type. When blinds are closed they cannot be unlocked from the outside.
Parts furnished separately on order.

10 sets in a box. 100 sets in a case. Case weight: 53 lbs., with screws; 50 lbs., without screws.

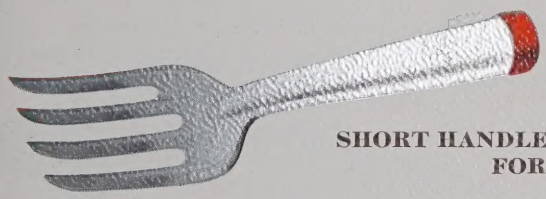
Specify Class Number and (Finish on Sets **1672, 1692**)

New! STANLEY Chromium GARDEN TOOLS



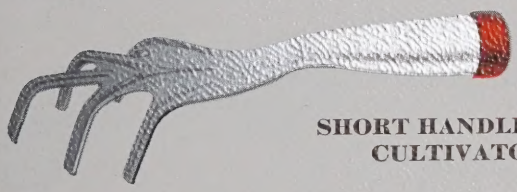
TROWEL

7041CM Chromium Plated, Enameled Tip
Comfortable steel handle. Rigid, full size blade with sharpened cutting edges.



SHORT HANDLED FORK

7042CM Chromium Plated, Enameled Tip
Four long tines for digging around plants and shrubs.



SHORT HANDLED CULTIVATOR

7043CM Chromium Plated, Enameled Tip
Five steel fingers to root out tough weeds. Corrugations increase strength.

TRANSPLANTER

7044CM Chromium Plated, Enameled Tip
Useful as lawn weeder as well as transplanter. Cutting edges sharpened.

Garden tools with eye appeal. Lustrous Chromium with brilliant red enameled tipped handles. They are sturdy, all steel, with comfortably shaped handles, light and easy to use, yet unusually strong.

These tools average about ten inches in length and eight ounces in weight. One-half dozen in a box or a set of four in an attractive and colorful display carton.

SET 7040CM

Packed in this Attractive and Sturdy Container

This Colorful Counter Display Sells Garden Tools

The box is not only an effective sales help through its colorful appeal and unique display of the tools, but it is also a strong shipping container, each tool being placed in a reinforced heavy cardboard rack. Each box sheathed in a cardboard sleeve, six boxes in a corrugated shipping case.

SET 7040CM

A Chromium-Plated, Four-Piece Garden Tool Set with Red Enameled Tips.
Set includes: One each 7041CM-7042CM-7043CM-7044CM.
Packed in colorful display carton as shown.
Weight, 2 lbs.

STANLEY
TRADE MARK

THE STANLEY WORKS New Britain, Conn., U. S. A.

6 Attractive STANLEY GARDEN TOOLS

Bright Natural Steel with Enameled Handles

Sturdy, all steel garden tools made with comfortably shaped handles. They are light and easy to use, yet unusually strong. All six numbers are made of natural colored, highly finished, lacquered steel with brilliantly finished enameled handles, except 7048 which has a blued finish tempered steel blade.
These tools average about ten inches in length and eight ounces in weight. One-half dozen in a box or in sets of three or four.

SET 7040

Packed in this Colorful Counter Display

This Colorful Counter Display Sells Garden Tools

The box is not only an effective sales help through its colorful appeal and unique display of the tools, but it is also a strong shipping container, each tool being placed in a reinforced heavy cardboard rack. Each box sheathed in a cardboard sleeve, twelve boxes in a corrugated shipping case.

TWO SETS THAT SELL

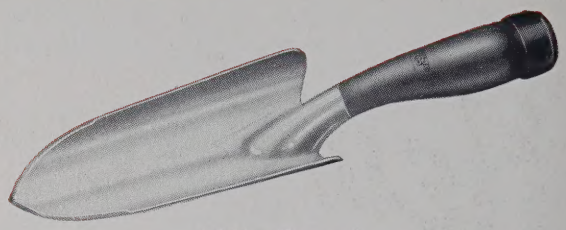
Set 7040

A Bright Steel, Four-Piece Garden Tool Set with Brilliant Enameled Handles.
Set includes: One each 7041-7042-7043-7044.
Packed in colorful display carton as shown.
Weight, 2 lbs.

Set 7040A

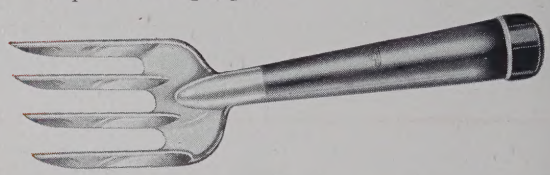
A Bright Steel, Three-Piece Garden Tool Set with Brilliant Enameled Handles.
Set includes: One each 7041-7042-7043.
Packed in single box.
Weight, 1½ lbs.

STANLEY
TRADE MARK



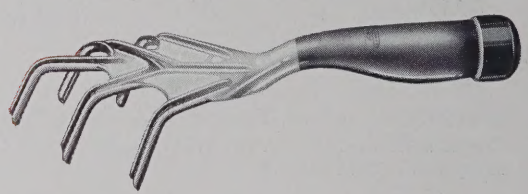
7041—Trowel

Comfortable steel handle. Rigid, full size blade with sharpened cutting edges.



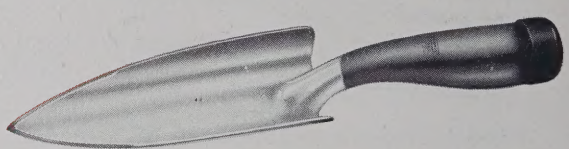
7042—Short Handled Fork

Four long tines for digging around plants and shrubs.



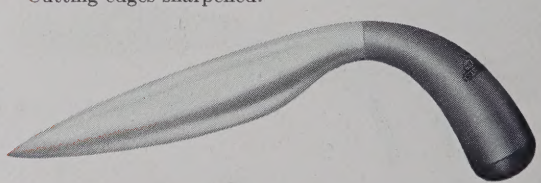
7043—Short Handled Cultivator

Five steel fingers to root out tough weeds. Corrugations increase strength.



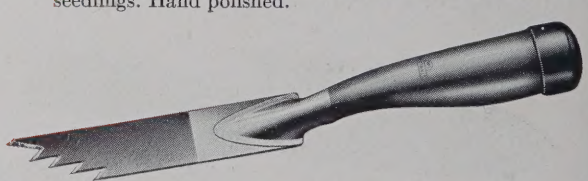
7044—Transplanter

Useful as lawn weeder as well as transplanter. Cutting edges sharpened.



7047—Dibble

Rapid hole-shooter for planting seed and setting out seedlings. Hand polished.



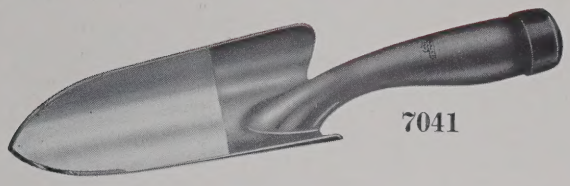
7048—Hand Weed Cutter

Strong, practical tool for digting up dandelions, plantains, docks, etc. Tempered blued steel blade with saw teeth. Hand ground.

This page replaces 205

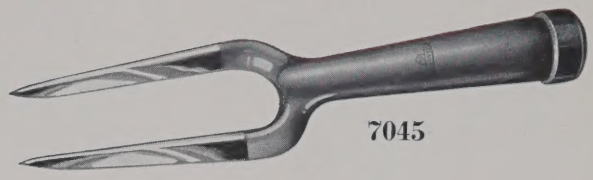
Garden Tools

Wrought Steel



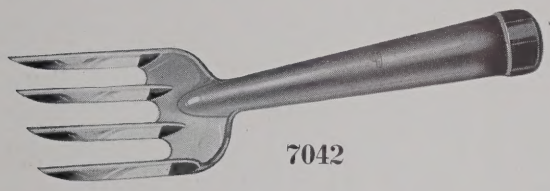
Trowel

Comfortable steel handle. Rigid full size blade.



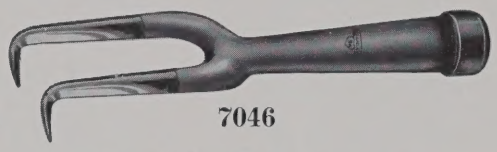
Two-Tined Fork

Won't clog with dirt or stones. Easy to penetrate hard soil.



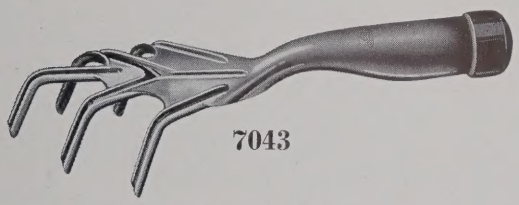
Fork

Four long tines for digging around plants and shrubs.



Two-Tined Cultivator

Stubby prongs won't clog with dirt or stones.

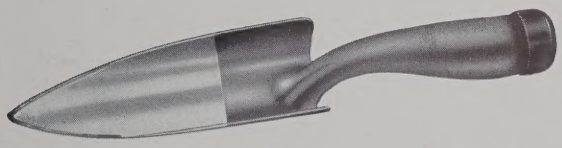


Cultivator

Five steel fingers to root out tough weeds.

Dibble

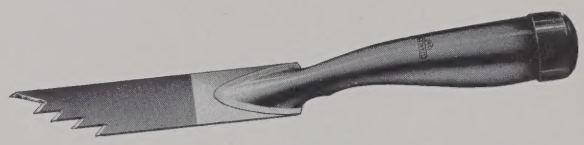
Rapid hole-shooter for planting seed and setting out seedlings.



7044

Transplanter

Useful as lawn weeder as well as transplanter.



7048

Hand Weed Cutter

Strong, practical tool for digging up dandelions, plantains, docks, etc. Tempered steel blade with saw teeth, hand ground.

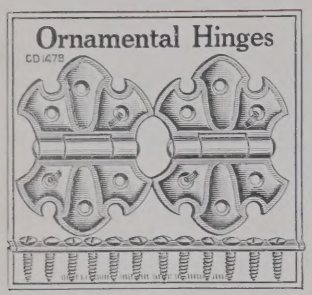
Made with smooth, comfortably shaped handles. Each tool weighs about 8 oz. each. Light to handle, yet unusually strong. They average about 10″ in length. Blades or tines of all garden tools are of natural colored, highly finished steel, except 7048, which has blued finish blade. Handles are finished in brilliant colored lacquer. One-half dozen in a box.

Set 7040

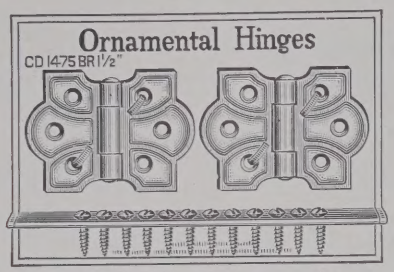
Four popular tools packed in an individual attractive colored box. Set includes 7041, 7043, 7044 and 7045. Weight, 2 lbs.

Carded Hardware with Screws

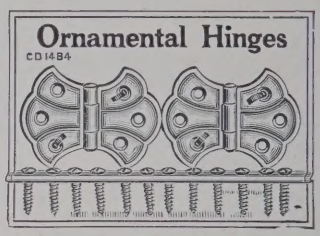
Wrought Steel



CD1478BR-D2-N 1½″
Case weight, 28 lbs.

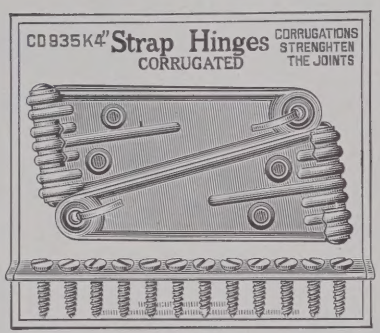


CD1475BR-D2-N 1½″
Case weight, 25 lbs.

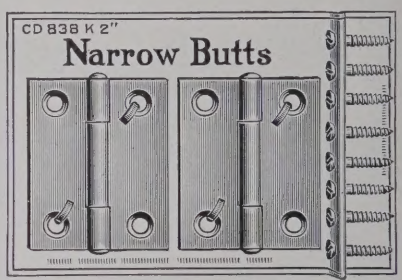


CD1484BR-D2-N ⅞″
Case weight, 15 lbs.

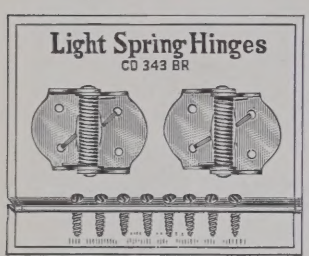
CD1431BR 1¼″
Case weight, 25 lbs.



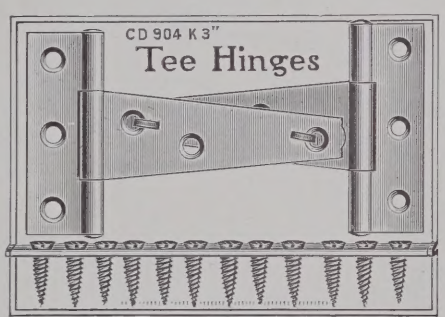
CD935K 4″
Case weight, 80 lbs.



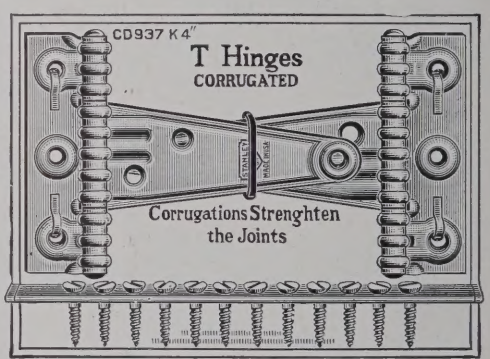
CD838BR (Fast Pin) **CD838K**
CD840BR (Loose Pin) **CD840K**
Case weight: 1½″, 17 lbs.
2″, 28 lbs. 2½″, 37 lbs.



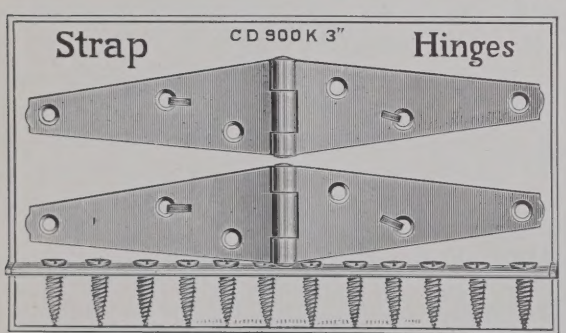
CD343BR-N 1¼″
Case weight, 32 lbs.



CD904BR 2″ **CD904K** 2″, 3″, 4″
Case weight:
2″, 31 lbs. 3″, 42 lbs. 4″, 53 lbs.

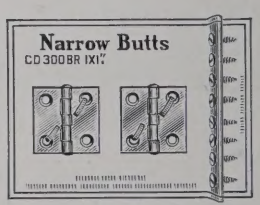


CD937K 4″
Case weight, 90 lbs.



CD900BR 2″ **CD900K** 2″, 3″, 4″
Case weight:
2″, 24 lbs. 3″, 42 lbs. 4″, 59 lbs.

CD344BR
Case weight, 19 lbs.



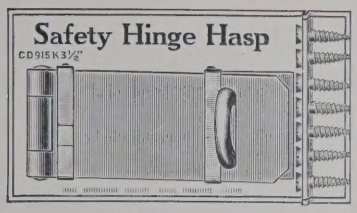
CD300BR
1″ x 1″
Case weight, 8 lbs.

BR—Brassed **D2**—Antique Copper **K**—Cadmium Plated **N**—Nickel Plated

One Dozen Cards in a Box, 12 Dozen in a Case

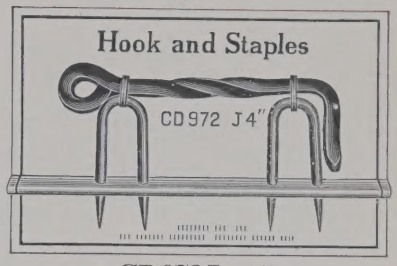
Carded Hardware with Screws

Wrought Steel



CD915K
Case weight: 3½", 44 lbs. 4½", 55 lbs. 6", 123 lbs.

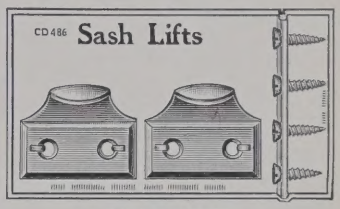
CD930BR
Case weight, 26 lbs.



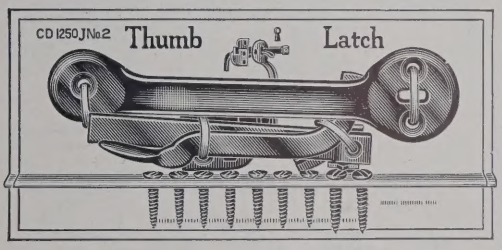
CD972J 4"
Case weight, 22 lbs.

CD912K
Case weight: 3", 32 lbs. 4½", 41 lbs.

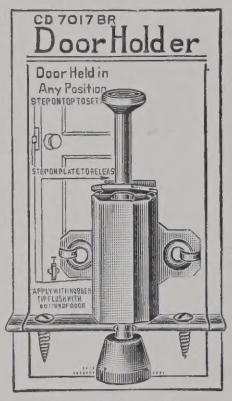
CD346BR-K
Case weight, 15 lbs.



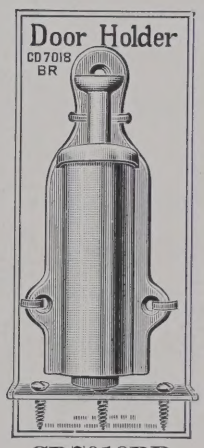
CD486BR
Case weight, 15 lbs.



CD1250J No. 2 CD1250K No. 2
Case weight, 57 lbs.

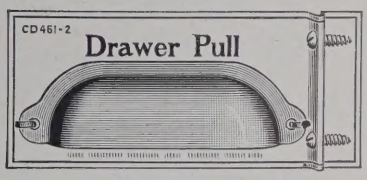


CD7017BR
Case weight, 32 lbs.

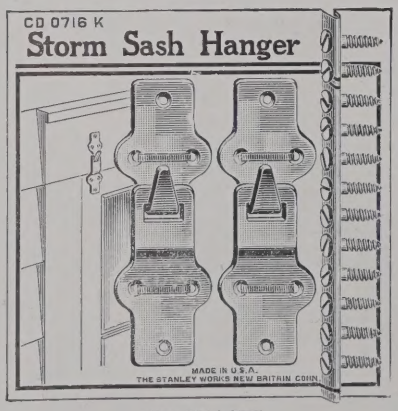


CD7018BR
Case wgt., 61 lbs.

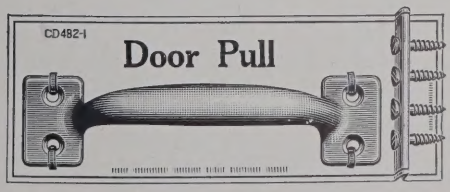
CD7019BR
Case wgt., 22 lbs.



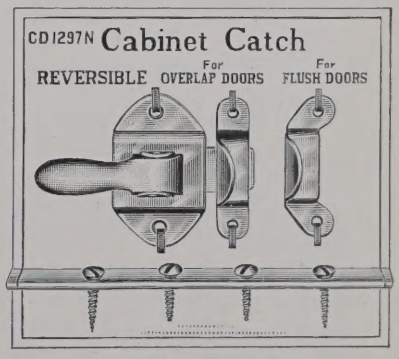
CD461BR-N No. 2 4"
Case weight, 13 lbs.



CD0716K
Case weight, 30 lbs.



CD482BR
No. 1—5". Case weight, 20 lbs.
No. 2—5¾". Case weight, 28 lbs.



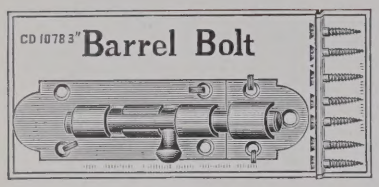
CD1297BR-N
Case weight, 20 lbs.

BR—Brassed **J**—Japanned **K**—Cadmium Plated **N**—Nickel Plated

One Dozen Cards in a Box, 12 Dozen in a Case

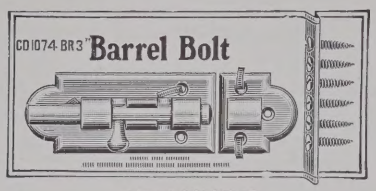
Carded Hardware with Screws

Wrought Steel



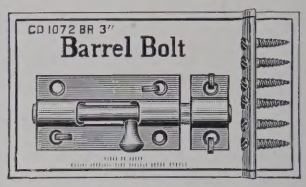
CD1078BR-J

Case weight: 2½", 21 lbs.
3", 32 lbs. 4", 40 lbs.



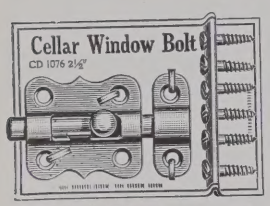
CD1074BR

Case weight: 2½", 17 lbs.
3", 26 lbs. 4", 33 lbs.

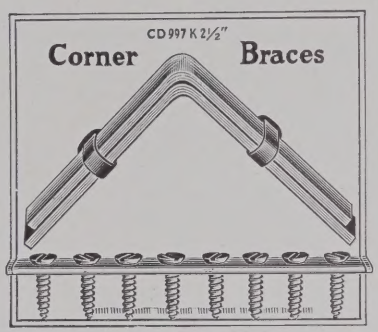


CD1072BR-K

Case weight: 2½", 17 lbs.
3", 27 lbs. 4", 37 lbs.
5", 57 lbs.

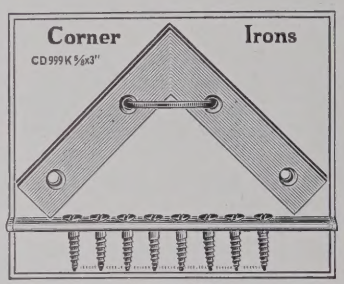


CD1076BR 2½"
Case weight, 28 lbs.



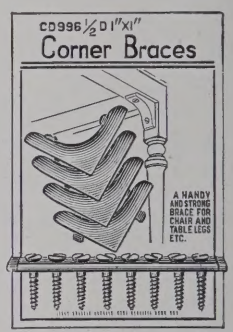
CD997K

Case weight: 1", 20 lbs.
1½", 28 lbs. 2", 27 lbs.
2½", 35 lbs. 3", 51 lbs.

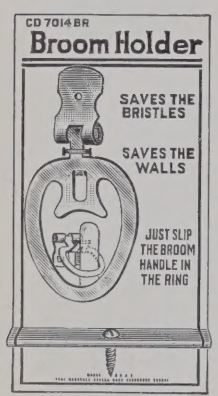


CD999K

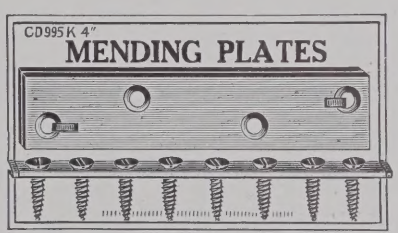
Case weight: ⅜x2", 21 lbs.
½x2½", 19 lbs. ½x3", 23 lbs.
⅝x3", 27 lbs. ⅝x4", 35 lbs.



CD996½D 1"x1"
Case wgt., 27 lbs.

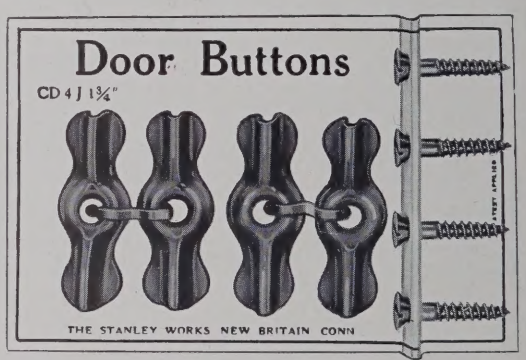


CD7014BR
Case wgt., 16 lbs.

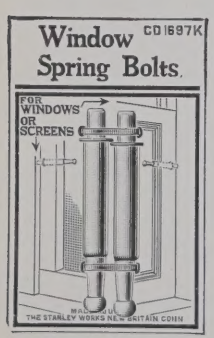


CD995K

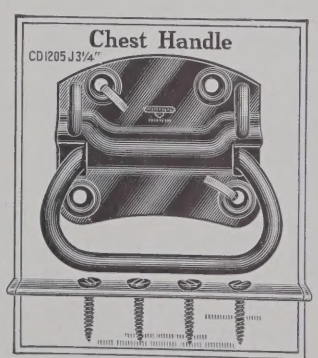
Case weight: 2", 19 lbs.
2½", 24 lbs. 3", 32 lbs.
3½", 28 lbs. 4", 32 lbs.



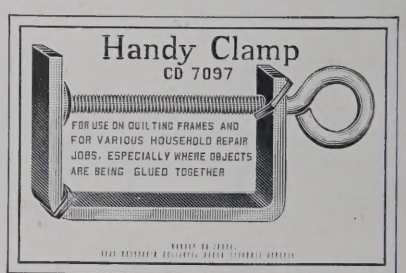
CD4J-K 1¾"
Case weight, 17 lbs.



CD1697K
Case wgt., 22 lbs.



CD1205J 3¼"
Case weight, 62 lbs.


Handy Clamp
CD 7097
FOR USE ON QUILTING FRAMES AND FOR VARIOUS HOUSEHOLD REPAIR JOBS, ESPECIALLY WHERE OBJECTS ARE BEING GLUED TOGETHER

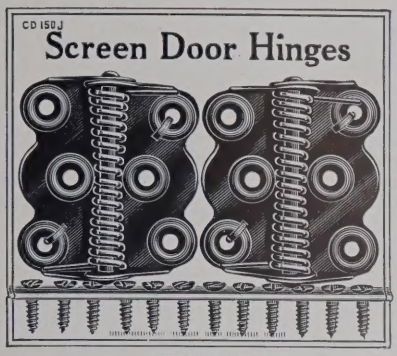
CD7097K
Case weight, 52 lbs.

BR—Brassed **D**—Coppered **J**—Japanned **K**—Cadmium Plated

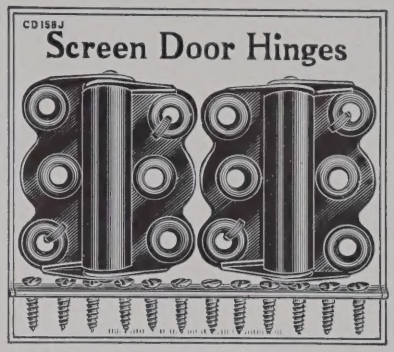
One Dozen Cards in a Box, 12 Dozen in a Case

Carded Hardware with Screws

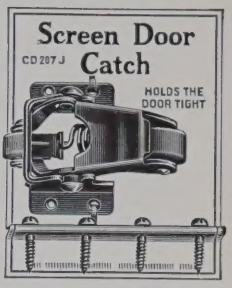
Wrought Steel



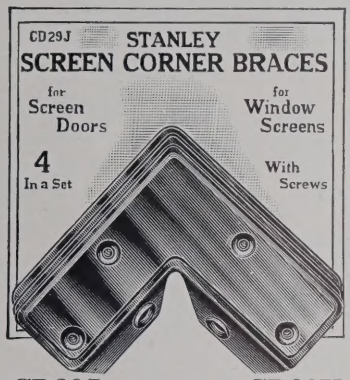
CD150J
Case weight, 66 lbs.



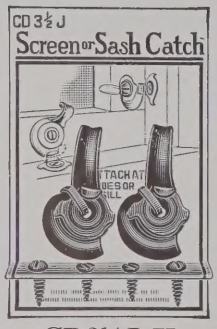
CD158J
Case weight, 78 lbs.



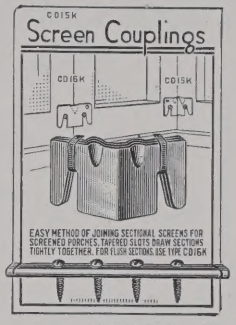
CD207J-K
Case weight, 32 lbs.



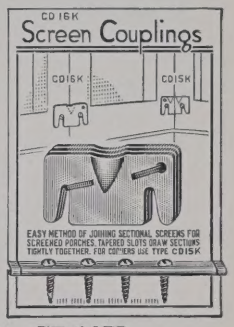
CD29J **CD29K**
Case weight, 52 lbs.



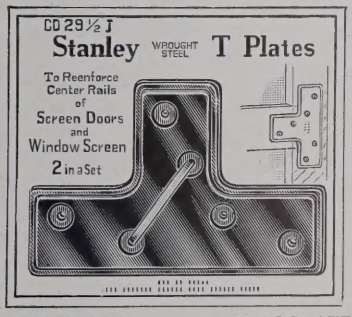
CD3½J-K
Case wgt., 15 lbs.


CD15K
Screen Couplings
CD15K
CD15K
EASY METHOD OF JOINING SECTIONAL SCREENS FOR SCREENED PORCHES. TAPERED SLOTS DRAW SECTIONS TIGHTLY TOGETHER. FOR FLUSH SECTIONS USE TYPE CD15K

CD15K (3 on a Card)
Case weight, 32 lbs.

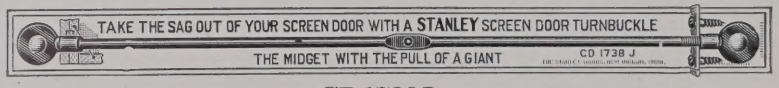

CD 16K
Screen Couplings
CD15K
CD15K
EASY METHOD OF JOINING SECTIONAL SCREENS FOR SCREENED PORCHES. TAPERED SLOTS DRAW SECTIONS TIGHTLY TOGETHER. FOR CORNERS USE TYPE CD15K

CD16K
Case weight, 25 lbs.

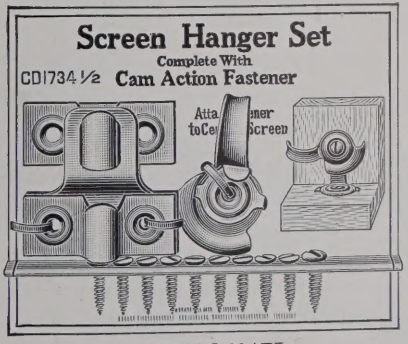


CD29½J **CD29½K**
Case weight, 28 lbs.

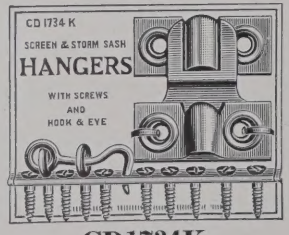
CD479BR-K-D2 5″
Case weight, 11 lbs.



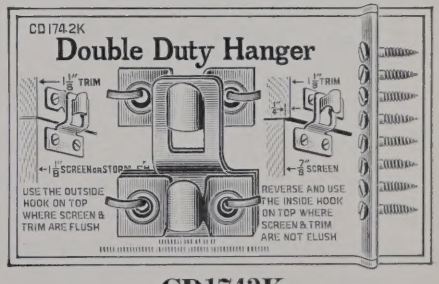
CD1738J
Length, 15″. Case weight, 40 lbs.



CD1734½K
Case wgt., 36 lbs.



CD1734K
Case weight, 30 lbs.

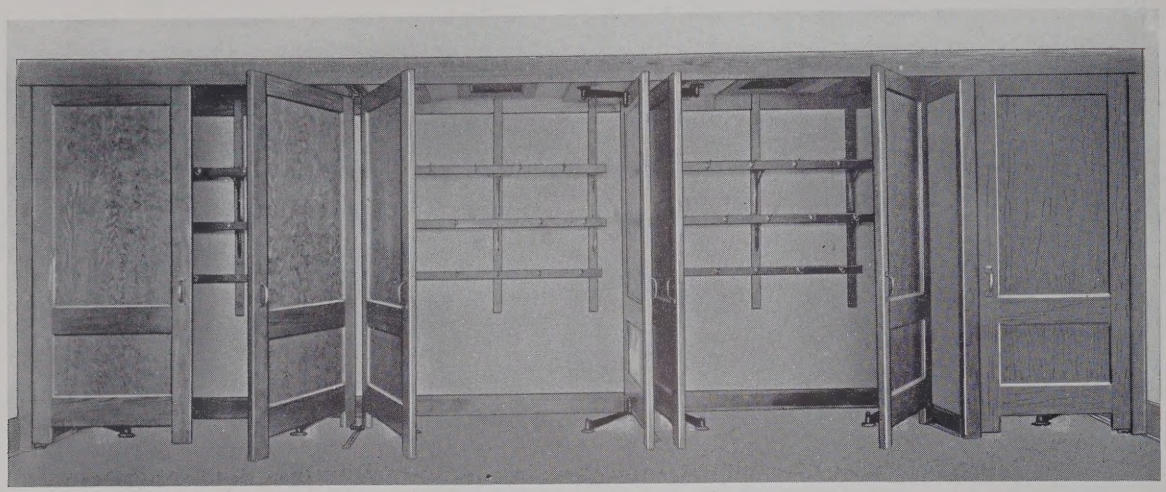

CD 1742-2K
Double Duty Hanger
USE THE OUTSIDE HOOK ON TOP WHERE SCREEN & TRIM ARE FLUSH
REVERSE AND USE THE INSIDE HOOK ON TOP WHERE SCREEN & TRIM ARE NOT FLUSH

CD1742K
Case weight, 27 lbs.

BR—Brassed **D2**—Antique Copper **J**—Japanned **K**—Cadmium Plated

One Dozen Cards in a Box, 12 Dozen in a Case

Hardware for School Wardrobes



Typical Installation

Wrought Steel

2705 B1 For Single Doors }
2705 B2 For Pairs of Doors } with 1¼″ clearance between door stiles and floor, and bottom rail cut out between stiles to make 4″ clearance.

2705 C1 For Single Doors }
2705 C2 For Pairs of Doors } with 4″ clearance between door and floor.

For wardrobes having doors of any thickness, varying in size from 18″ to 48″ in width and any height desired. Hardware as regularly made requires a wardrobe with a minimum depth of 25″ from outside face of door to plaster wall. Two-foot doors project only 2″ beyond front end of wardrobe when open, which does not hinder passage of pupils.

On special order the hardware can be furnished for wardrobes having a mimimum depth of 18″, but, in such case, two-foot doors will project 8″ into the passage way.

Doors are hung in pairs, with a single door at both ends. Pairs of doors operate in unison, it being necessary to pull only one door to open or close both doors. No mullions or partitions are necessary.

Made to set the doors from 1¼″ to 4″ above the floor. Special clearances on order. It is preferable to set doors up from the floor to provide ventilation in the wardrobe. The doors take up very little space in the wardrobe when open, the maximum being 5″ for two 1⅜″ doors.

Any number of sections can be had in a unit, although three 4-foot sections are ordinarily sufficient for the average classroom, as each section provides for seventeen pupils. A single 2-foot section at either end furnishes the teacher's locker.

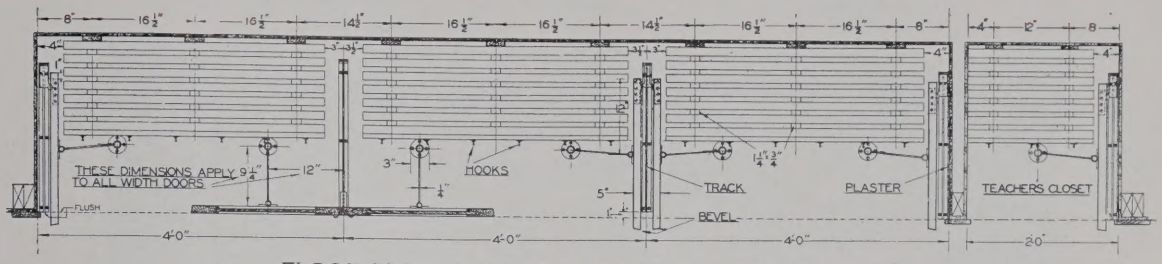
The extra heavy steel hinges will carry over 300 lbs. The hinge arms are 8¾″ long, ¼″ in thickness and set well back in the wardrobe avoiding any tripping hazard. The pins are grooved for lubricant.

The top track and bottom rail are made of wrought steel; the guides are bronze. The bronze-on-steel bearing surface minimizes wear and insures smooth, noiseless operation. Track and rail do not in any way hang or support the doors, they merely guide them. There is sufficient friction to prevent the doors from slamming.

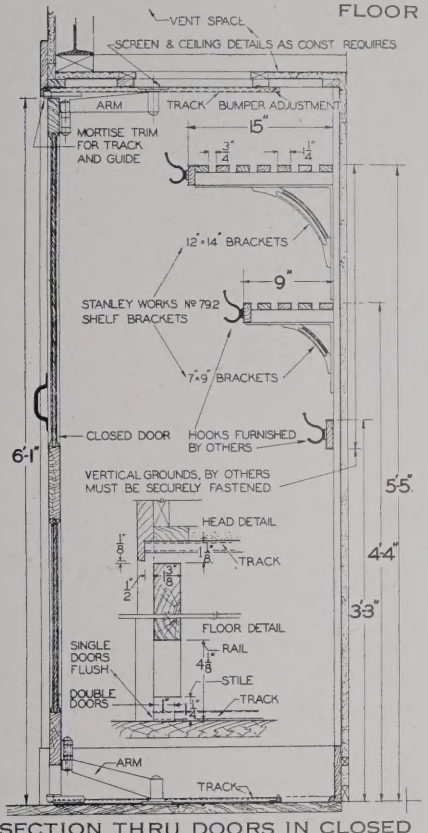
The track is fitted with rubber bumpers to insure quiet operation.

Construction details are available on request

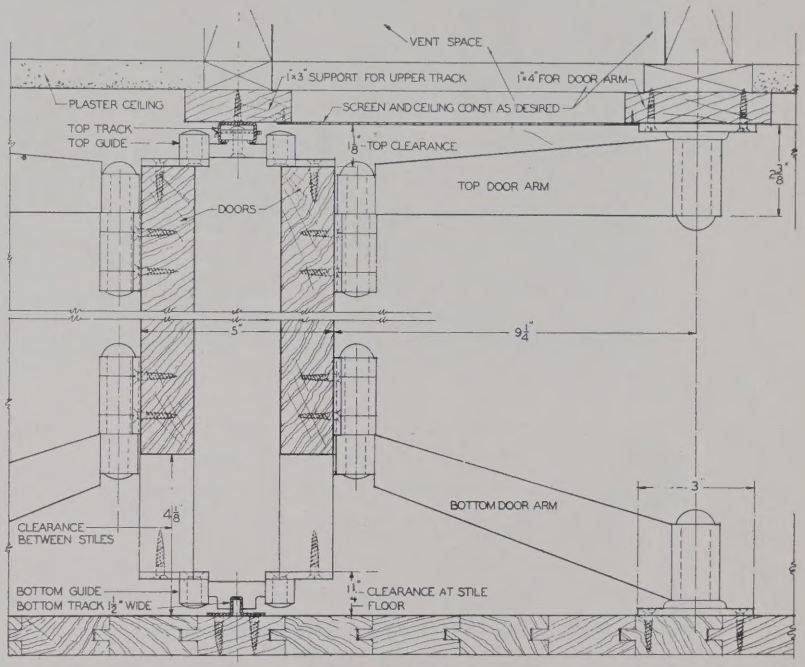
Hardware for School Wardrobes



FLOOR PLAN SHOWING ARRANGEMENT OF DOORS

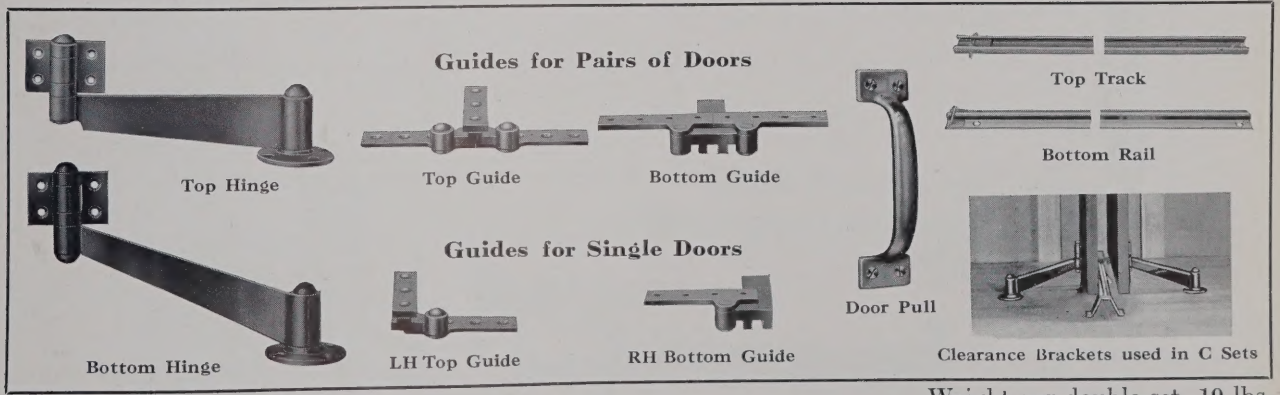


SECTION THRU DOORS IN CLOSED POSITION



SECTION THRU DOORS IN OPEN POSITION

Component Parts



One set in a carton, with wood screws. Weight per double set, 19 lbs.

*792—Shelf Brackets, 7" x 9" and 12" x 14", are recommended for holding shelves. Furnished in Dead Black (J1) finish; Track and Rail, Cadmium Plated.

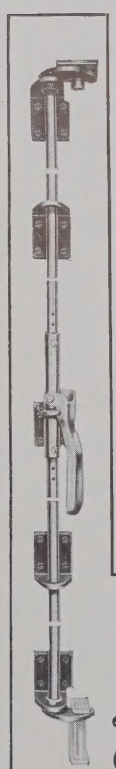
* Not part of set. Furnished only on order.

Specify Class Number, Depth of Wardrobe, Number of Doors and (Hand on Single Sets)

To avoid errors drawings should accompany each order

Hinged Door Garage Hardware

For Public Garages and Industrial Buildings



Set 1780 Wrought Steel

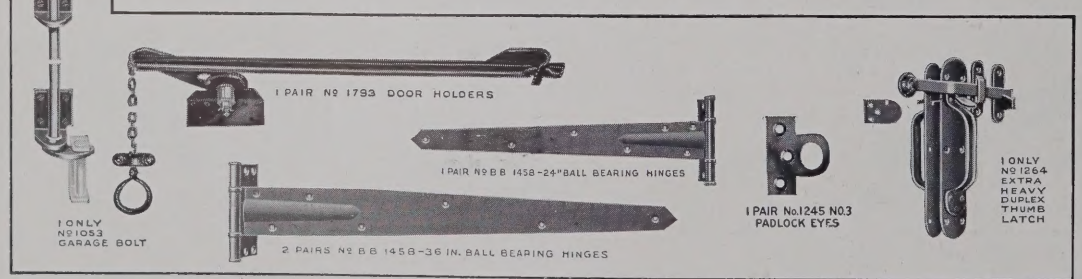
Doors are equipped with extra heavy ball bearing hinges, 36″ at top and bottom and 24″ in the center.

The active door is equipped with an extra heavy duplex thumb latch, and a pair of padlock eyes which permits locking the doors with a padlock. The inactive door is fastened at top and bottom with an extra heavy espagnolette bolt.

Doors are held open with friction type door holders which prevent strain on the doors and jambs. By means of a simple device, friction is automatically reset each time the doors are closed. A slight pull on the chain releases the holder.

Cremone Bolt 1052 substituted on order at a slight additional expense.

Set consists of:


1 PAIR Nº 1793 DOOR HOLDERS
1 PAIR Nº BB 1458-24" BALL BEARING HINGES
2 PAIRS Nº BB 1458-36 IN. BALL BEARING HINGES
1 PAIR No.1245 NO.3 PADLOCK EYES
1 ONLY Nº 1264 EXTRA HEAVY DUPLEX THUMB LATCH
1 ONLY Nº 1053 GARAGE BOLT

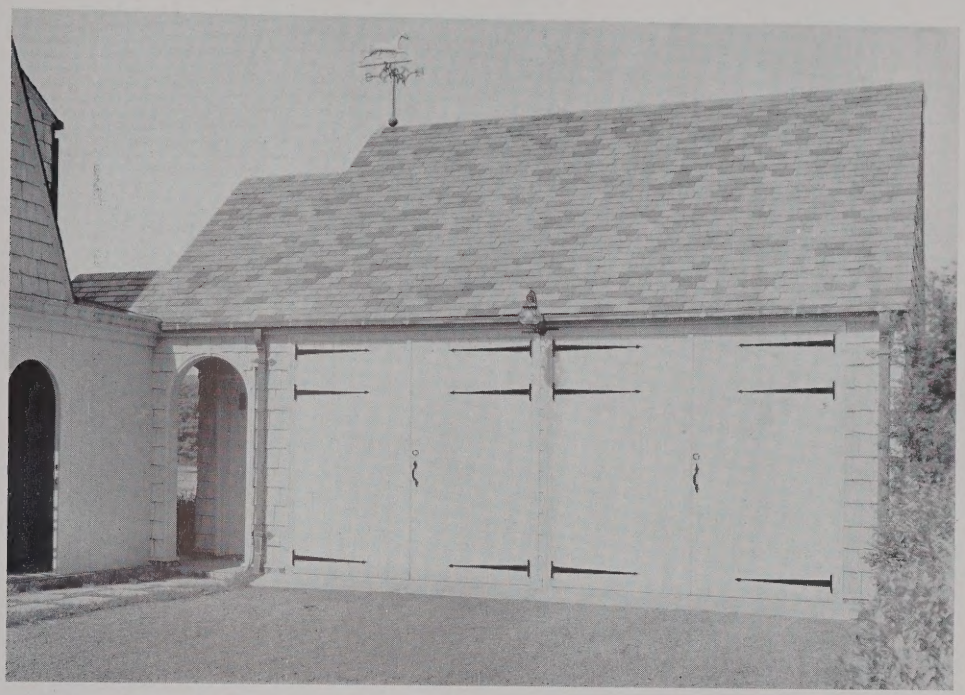
One complete set in a case. Weight, 116 lbs.

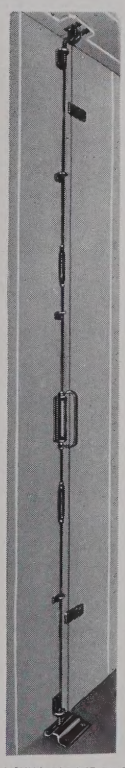
Furnished in Japanned (J), Dead Black (J1) or (KJ1) finish

Specify Class Number and Finish

Separate items described elsewhere in the catalog

Hinged Door Garage Hardware





Set 1780½ Wrought Steel

Doors are equipped with three pairs of extra heavy ball bearing hinges 32″ in length.

Equipped with a "Kee-Bolt" affording a quick and secure means of latching and locking both doors. It is possible to master-key the bolt with the locks on the house so that one key can be used for both.

Doors are held open with friction type door holders, which prevent strain on the doors and jambs. By means of a simple device, friction is automatically reset each time the doors are closed. A slight pull on the chain releases the holder.

Set consists of:

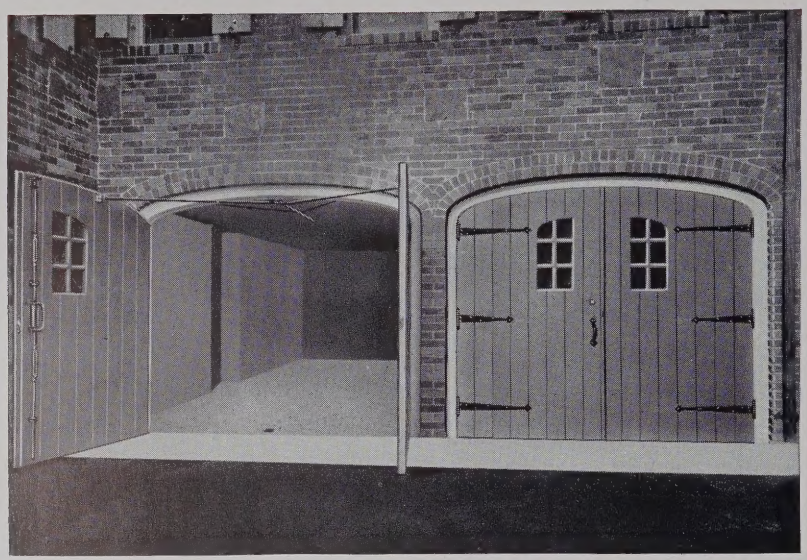
One complete set in a case. Weight, 53 lbs.

Furnished in Japanned (J), Dead Black (J1) or (KJ1) finish

Specify Class Number, Finish and (Make of Cylinder for "Kee-Bolt")

Separate items described elsewhere in the catalog

Hinged Door Garage Hardware



Wrought Steel

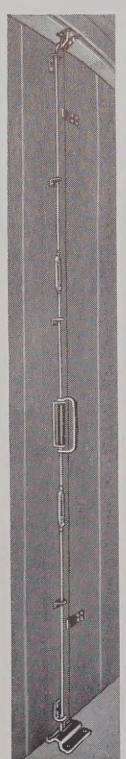
Set 1781¼ **Set 1781½**

Doors are equipped with extra heavy ball bearing hinges, 24″ at top and bottom and 18″ in the center. The edges and ends of the hinges are hand-hammered. Door leaf applied with lag screws.

Equipped with a "Kee-Bolt" affording a quick and secure means of latching and locking both doors. It is possible to master-key the bolt with the locks on the house so that one key can be used for both.

Doors are held open with the "Two-in-One" door holder. The action of the holder operates both doors at the same time, thereby making it easy to open and close them. As both doors operate together, wind pressure is equalized and they will not blow open or shut.

Sets consist of:

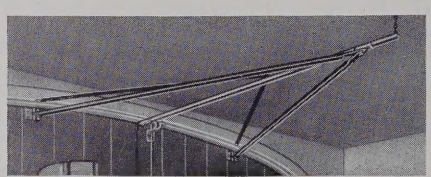


1 ONLY 1005 KEE BOLT

FOR SET 1781¼

OUTSIDE HANDLE

1 ONLY 1277 DOOR PULL

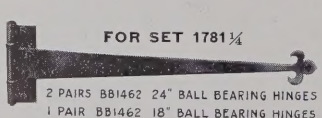


1 ONLY 1790 DOOR HOLDER

FOR SET 1781½

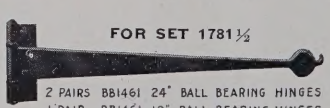
OUTSIDE HANDLE

1 ONLY 1276 DOOR PULL



FOR SET 1781¼

2 PAIRS BB1462 24" BALL BEARING HINGES
1 PAIR BB1462 18" BALL BEARING HINGES



FOR SET 1781½

2 PAIRS BB1461 24" BALL BEARING HINGES
1 PAIR BB1461 18" BALL BEARING HINGES

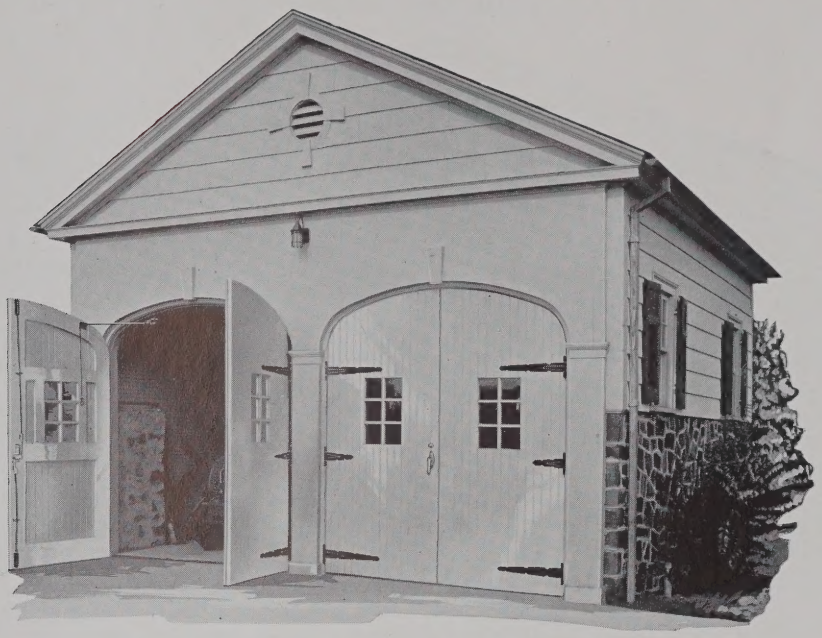
One complete set in a case. Weight, 50 lbs.

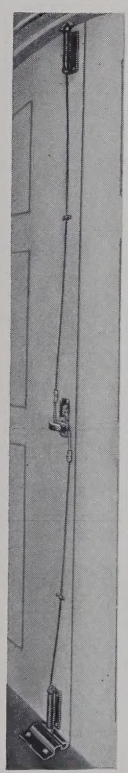
Furnished in Dead Black (KJ1) finish

Specify Class Number and (Make of Cylinder for "Kee-Bolt")

Separate items described elsewhere in the catalog

Hinged Door Garage Hardware





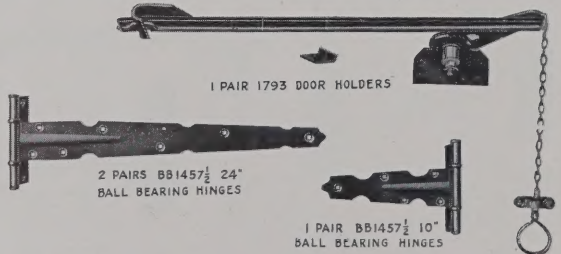
Set 1785 Wrought Steel

Doors are equipped with extra heavy ball bearing hinges, 24″ at top and bottom and 10″ in the center.

The active door is equipped with a cylinder locking bolt which fastens both doors at top and bottom. A slight turn of the key unlocks the mechanism. A turn of either the outside or inside handle releases the bolt. It is possible to master-key the bolt with the locks on the house so that one key can be used for both.

Doors are held open with friction type holders which prevent strain on the doors and jambs. By means of a simple device, friction is automatically reset each time the doors are closed. A slight pull on the chain releases the holder.

Set consists of:



One complete set in a case. Weight, 39 lbs.

Furnished in Japanned (J), Dead Black (J1) or (KJ1) finish

Specify Class Number, Finish and (Make of Cylinder for Bolt)

Separate items described elsewhere in the catalog

Hinged Door Garage Hardware

With Door Holders

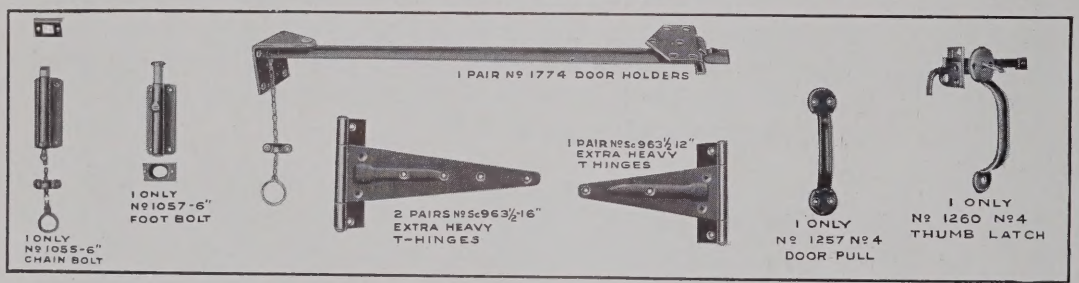
Wrought Steel

Set 1777 with Fast Pin Hinges, 16″ for top and bottom, 12″ for center, and Door Holders 1774.

Set 1775 x 1771 with 10″ Loose Pin Hinges and Door Holders 1771. Hinges can be applied full surface or half surface. For full surface application doors must set flush with casing.

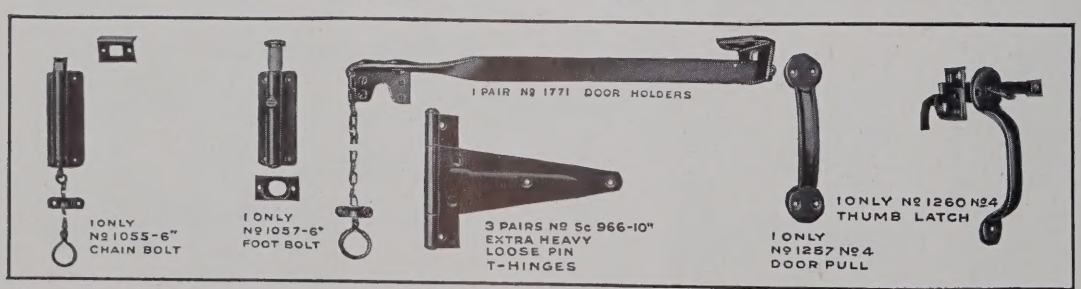
The active door is equipped with a thumb latch having a padlock attachment. The inactive door is fastened at top and bottom with chain and foot bolts. Door holders are furnished for holding doors open.

Set 1777 consists of:



One complete set in a carton. Weight, 49 lbs.

Set 1775 x 1771 consists of:



One complete set in a carton. Weight, 33 lbs.

Furnished on order with modernistic hinge Sc969½ under Set 1778½ x 1771.

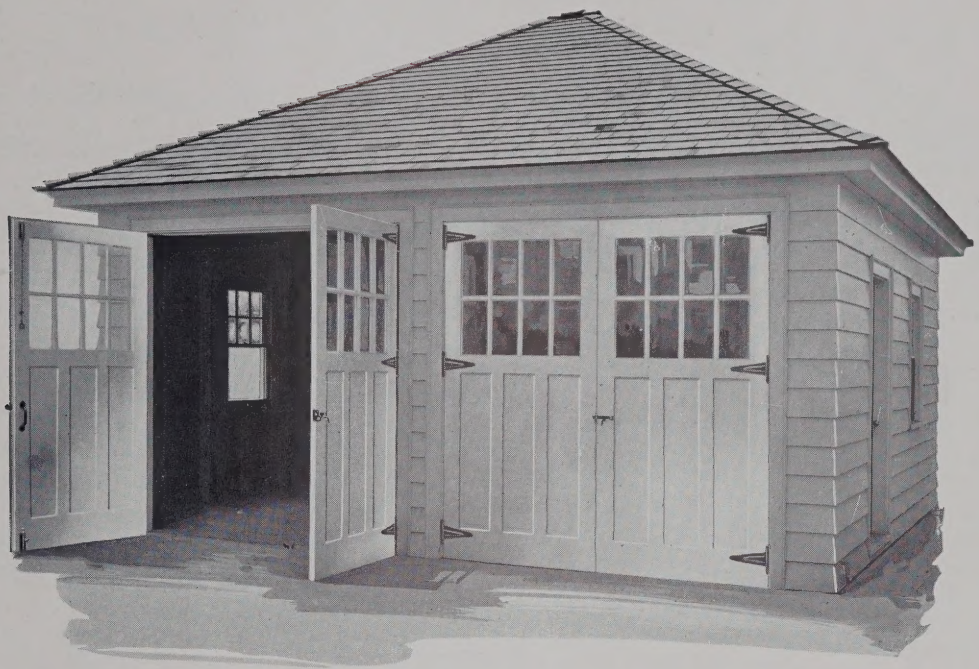
Furnished in Japanned (J), Dead Black (J1) or (KJ1) finish

Specify Class Number and Finish

Separate items described elsewhere in the catalog

Hinged Door Garage Hardware

Without Door Holders



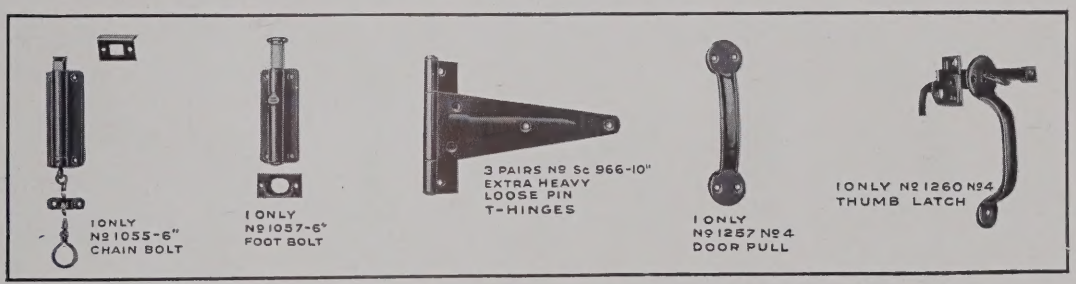
Wrought Steel

Set 1775 with 10″ Loose Pin Hinges. Hinges can be applied full surface or half surface. For full surface application doors must set flush with casing.

Set 1776 with 10″ Fast Pin Hinges.

The active door is equipped with a thumb latch having a padlock attachment. The inactive door is fastened at top and bottom with chain and foot bolts.

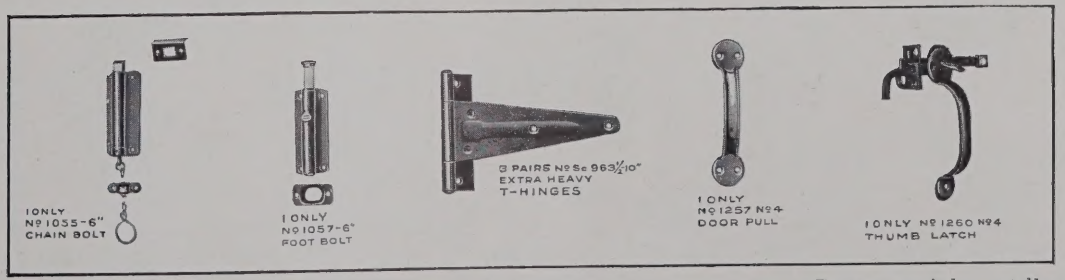
Set 1775 consists of:



One complete set in a box, three sets in a carton. Carton weight, 54 lbs.

Furnished on order with 8″ hinges under Set 1779.

Set 1776 consists of:



One complete set in a box, three sets in a carton. Carton weight, 54 lbs.

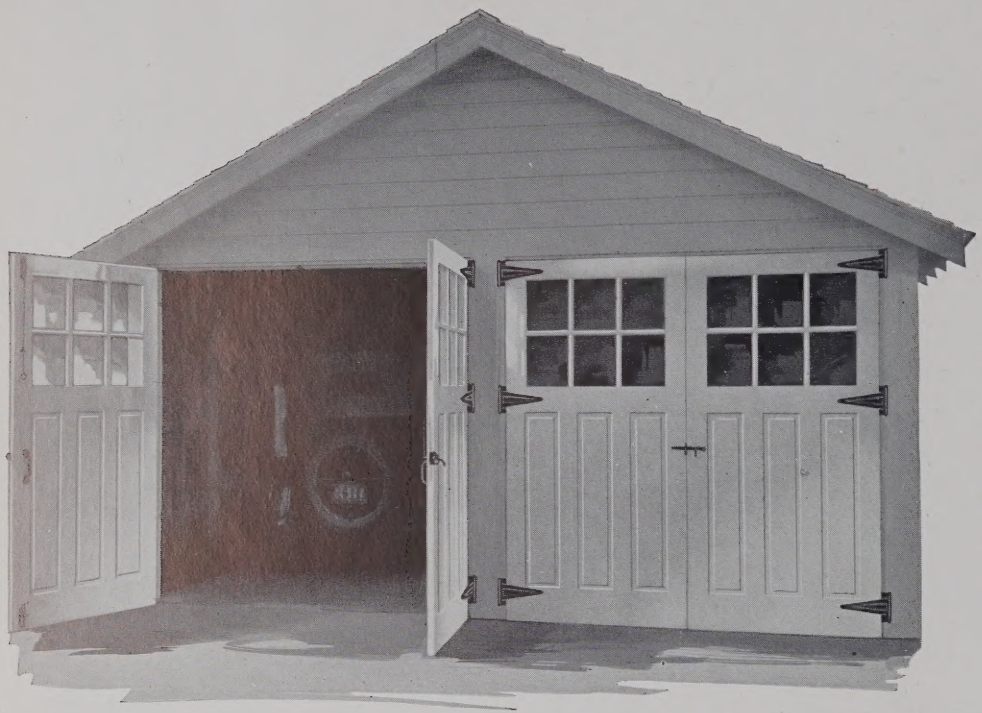
Furnished in Japanned (J), Dead Black (J1) or (KJ1) finish

Specify Class Number and Finish

Separate items described elsewhere in the catalog

Hinged Door Garage Hardware

Without Door Holders



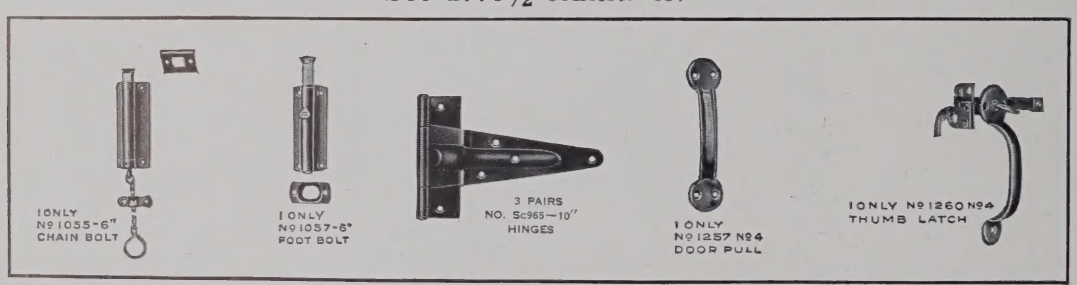
Wrought Steel

Set 1776½ with 10″ Fast Pin Hinges. Hinges allow doors to swing clear of opening. Doors must set flush with casing.

Set 1778½ with 10″ Loose Pin Hinges of modern design. Hinges can be applied full surface or half surface. For full surface application doors must set flush with casing.

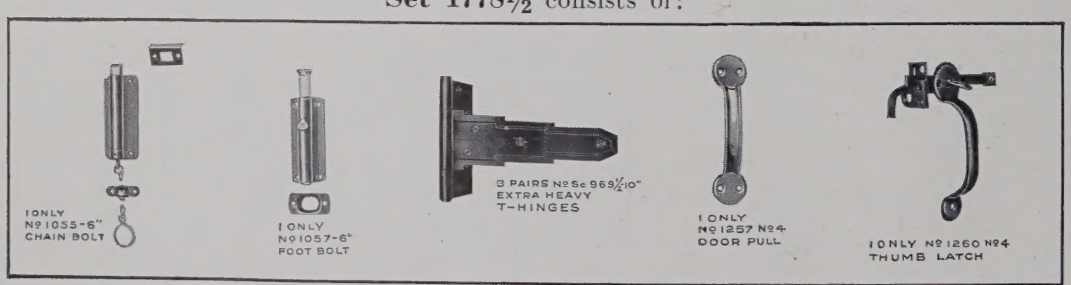
The active door is equipped with a thumb latch having a padlock attachment. The inactive door is fastened at top and bottom with chain and foot bolts.

Set 1776½ consists of:



One complete set in a box, three sets in a carton. Carton weight, 45 lbs.

Set 1778½ consists of:



One complete set in a box, three sets in a carton. Carton weight, 45 lbs.

Furnished on order with door holders 1771 under Set 1778½ x 1771.

Furnished in Japanned (J), Dead Black (J1) or (KJ1) finish

Specify Class Number and Finish

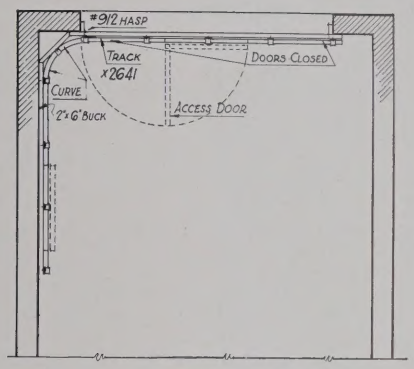
Separate items described elsewhere in the catalog

Rolling Door Garage Hardware

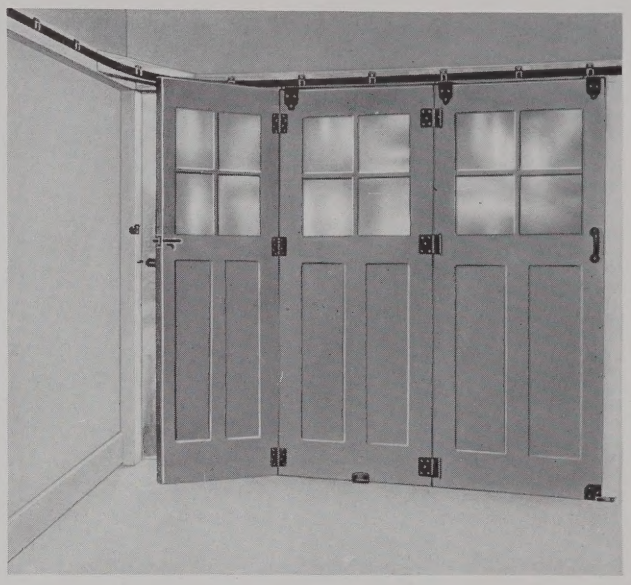
"Round-the-Corner"

For doors not over 2″ in thickness, 3′ in width, or 150 pounds in weight

Wrought Steel



Floor Plan



Set SX2605 with Trolley Track (16-Gauge)

For openings of any width with three or more doors; doors should be of equal width *and must not exceed 3′ in width.* Headroom required above top of doors is 6¼″.

The full width of the opening and almost the full width of the building are available. A weather-tite arrangement, operating inside the building out of the way and out of the weather.

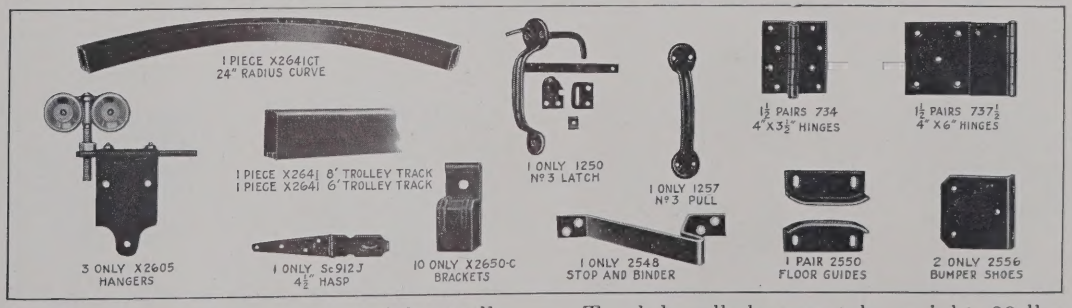
Can be installed with passage door hung from the jamb, independently of the rolling doors, which roll past it to the side wall. (See illustration, page 220.) A 16′ opening, using three doors on each side, takes two complete sets with an additional center guide and stop (2552).

The passage door is hung on 4″ x 3½″ full surface offset hinges. The other two doors are hinged together with special full surface hinges, which permit all three doors to roll smoothly and easily. Doors operate on double truck hangers, fitted with a ball bearing on the swivel and roller bearings in the wheels.

The passage door is equipped with a thumb latch, and a hinge hasp is provided for locking the doors with a padlock. Trolley track furnished as follows:

8′ opening: One 8′ piece, one 6′ piece, one curved (24″ radius) piece
10′ opening: One 10′ piece, one 8′ piece, one curved (24″ radius) piece
12′ opening: Two 6′ pieces, one 10′ piece, one curved (24″ radius) piece

Set (regularly furnished for 8′ opening) consists of:


1 PIECE X2641CT 24" RADIUS CURVE
1 PIECE X2641 8' TROLLEY TRACK
1 PIECE X2641 6' TROLLEY TRACK
3 ONLY X2605 HANGERS
1 ONLY Sc912J 4½" HASP
10 ONLY X2650-C BRACKETS
1 ONLY 1250 N°3 LATCH
1 ONLY 1257 N°3 PULL
1 ONLY 2548 STOP AND BINDER
1½ PAIRS 734 4"X3½" HINGES
1½ PAIRS 737½ 4" X6" HINGES
1 PAIR 2550 FLOOR GUIDES
2 ONLY 2556 BUMPER SHOES

One complete set in a carton, weight, 29 lbs. Track bundled separately, weight, 29 lbs.

Furnished in Japanned finish, trolley Cadmium Plated

Specify Class Number and (Width of Opening if not 8′)

Separate items described elsewhere in the catalog

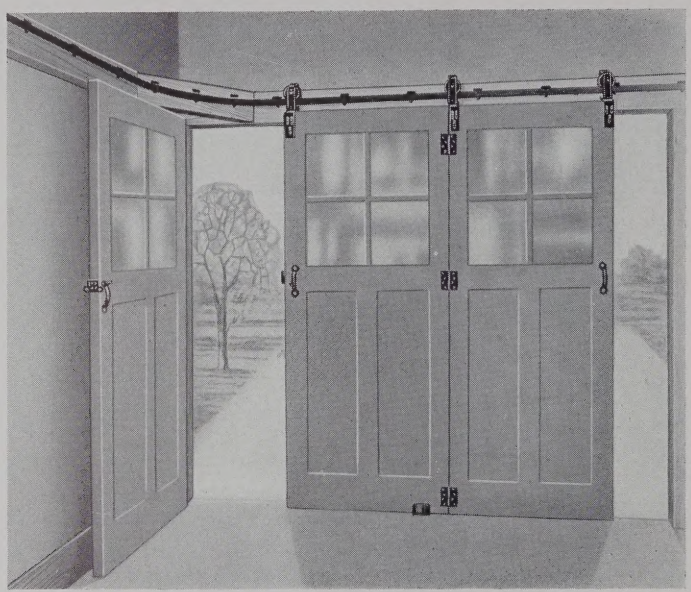
COLUMBIA UNIVERSITY WARE MEMORIAL LIBRARY

Rolling Door Garage Hardware

"Round-the-Corner"

For doors not over 2″ in thickness, 3′ in width, or 125 pounds in weight

Wrought Steel



Set T2504 with Flat Track in 13″ Sections

For openings of any width with three or more doors; doors should be of equal width *and must not exceed 3′ in width.* Headroom required above top of doors is 6″.

The full width of the opening and almost the full width of the building are available. A weather-tite arrangement, operating inside the building out of the way and out of the weather.

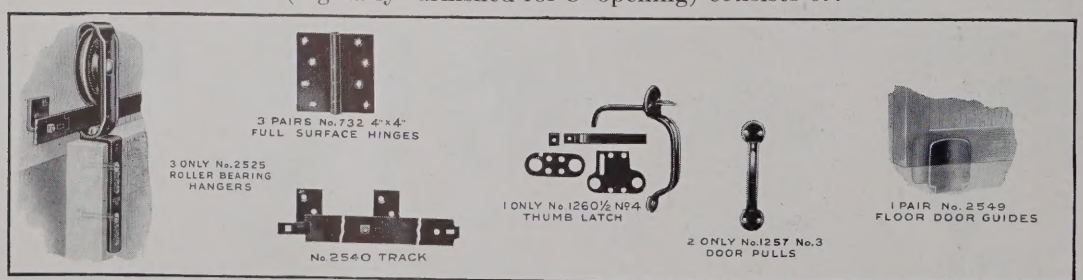
Can be installed with passage door hung to other doors and all rolling around the corner. (See illustration, page 219.) A 16′ opening, using three doors on either side, takes two complete sets with an additional center guide and stop (2552).

Doors are hung on 4″ x 4″ full surface hinges. The passage door is equipped with a thumb latch having a padlock attachment which permits locking the doors from either side. The two doors which are hinged together operate on swivel type roller bearing hangers. Vertical adjustment is obtained by slotted bolt holes in the apron.

The track is furnished in 13″ sections and the ends interlock insuring smooth operation.

8′ opening: Furnished with 12 straight pieces and 3 curved (24″ radius) pieces
10′ opening: Furnished with 15 straight pieces and 3 curved (24″ radius) pieces
12′ opening: Furnished with 18 straight pieces and 3 curved (24″ radius) pieces

Set (regularly furnished for 8′ opening) consists of:


3 PAIRS No.732 4"x4" FULL SURFACE HINGES
3 ONLY No.2525 ROLLER BEARING HANGERS
No.2540 TRACK
1 ONLY No.1260½ N94 THUMB LATCH
2 ONLY No.1257 No.3 DOOR PULLS
1 PAIR No.2549 FLOOR DOOR GUIDES

One complete set in a carton, weight, 32 lbs.; two sets in a corrugated container, gross weight, 67 lbs.

Furnished in Japanned finish

Specify Class Number and (Width of Opening if not 8′)

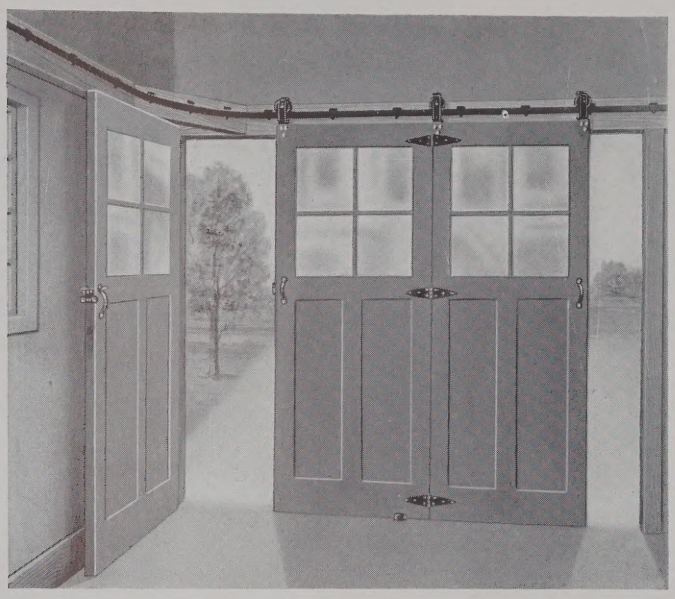
Separate items described elsewhere in the catalog

Rolling Door Garage Hardware

"Round-the-Corner"

For doors not over 2″ in thickness, 3′ in width, or 125 pounds in weight

Wrought Steel



Set T2505 with Flat Track in 13″ Sections

For openings of any width with three or more doors; doors should be of equal width *and must not exceed 3′ in width.* Headroom required above top of doors is 6″.

The full width of the opening and almost the full width of the building are available. A weather-tite arrangement, operating inside the building out of the way and out of the weather.

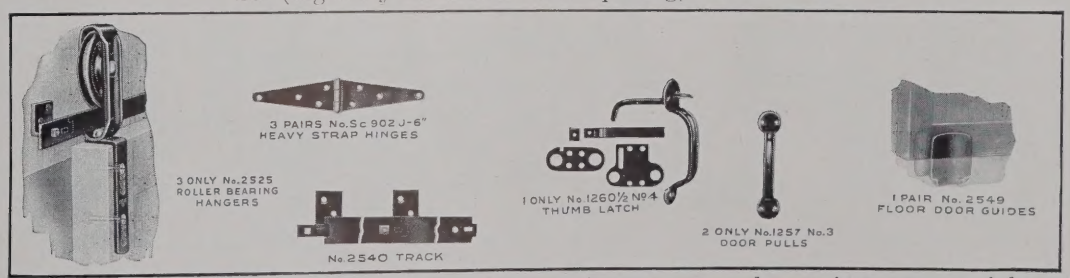
Can be installed with passage door hung to other doors and all rolling around the corner. (See illustration, page 219.) A 16′ opening, using three doors on either side, takes two complete sets with an additional center guide and stop (2552).

Doors are hung on 6″ heavy strap hinges. The passage door is equipped with a thumb latch having a padlock attachment which permits locking the doors from either side. The two doors which are hinged together operate on swivel type roller bearing hangers. Vertical adjustment is obtained by slotted bolt holes in the apron.

The track is furnished in 13″ sections and the ends interlock insuring smooth operation.

8′ opening: Furnished with 12 straight pieces and 3 curved (24″ radius) pieces
10′ opening: Furnished with 15 straight pieces and 3 curved (24″ radius) pieces
12′ opening: Furnished with 18 straight pieces and 3 curved (24″ radius) pieces

Set (regularly furnished for 8′ opening) consists of:


3 ONLY No.2525 ROLLER BEARING HANGERS
3 PAIRS No.Sc 902 J-6" HEAVY STRAP HINGES
No.2540 TRACK
1 ONLY No.1260½ No.4 THUMB LATCH
2 ONLY No.1257 No.3 DOOR PULLS
1 PAIR No. 2549 FLOOR DOOR GUIDES

One complete set in a carton, weight, 34 lbs.; two sets in a corrugated container, gross weight, 68 lbs.

Furnished in Japanned finish

Specify Class Number and (Width of Opening if not 8′)

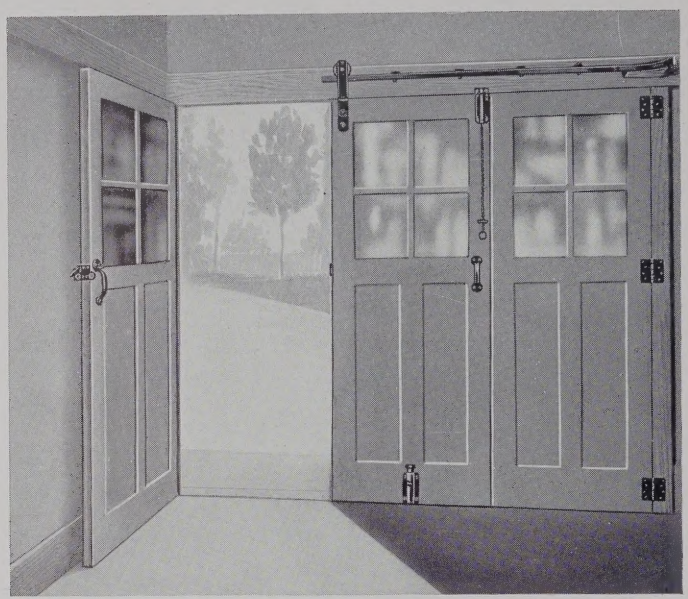
Separate items described elsewhere in the catalog

Folding Sliding Garage Door Hardware

For Doors Opening In

For doors not over 2″ in thickness, 3′ in width, or 125 pounds in weight

Wrought Steel



Set T2509 with Flat Track in One Piece

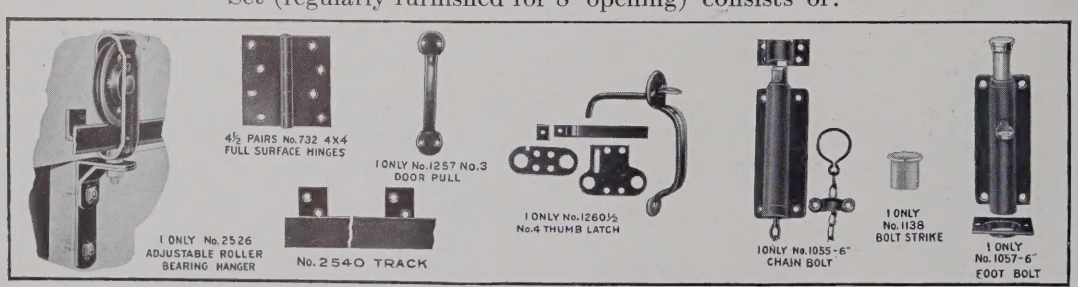
For openings with three doors; doors should be of equal width. Headroom required above top of doors is 6″.

A weather-tite arrangement, operating inside the building out of the way and out of the weather.

Doors are hung on 4″ x 4″ full surface hinges. The passage door is equipped with a thumb latch having a padlock attachment which permits locking the door from either side. The two doors which are hinged together operate on a swivel type roller bearing hanger provided with vertical adjustment. Fastened at top and bottom with chain and foot bolts.

The track for 8′ opening furnished in one piece, 5′ 9″ in length.

Set (regularly furnished for 8′ opening) consists of:


4½ PAIRS No.732 4X4 FULL SURFACE HINGES
1 ONLY No.1257 No.3 DOOR PULL
1 ONLY No.2526 ADJUSTABLE ROLLER BEARING HANGER
No.2540 TRACK
1 ONLY No.1260½ No.4 THUMB LATCH
1 ONLY No.1055-6" CHAIN BOLT
1 ONLY No.1138 BOLT STRIKE
1 ONLY No.1057-6" FOOT BOLT

One complete set in a carton, weight, 13 lbs. Track bundled separately, weight, 6 lbs.

Furnished in Japanned finish

Specify Class Number and (Width of Opening if not 8′)

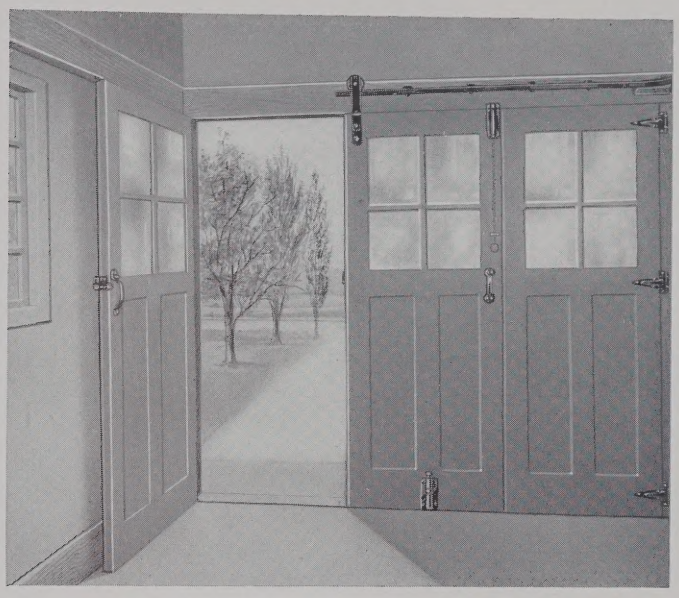
Separate items described elsewhere in the catalog

Folding Sliding Garage Door Hardware

For Doors Opening In

For doors not over 2″ in thickness, 3′ in width, or 125 pounds in weight

Wrought Steel



Set T2510 with Flat Track in 13″ Sections

For openings with three or four doors (see illustrations, page 224); doors should be of equal width. Headroom required above top of doors is 6″.

A weather-tite arrangement, operating inside the building out of the way and out of the weather.

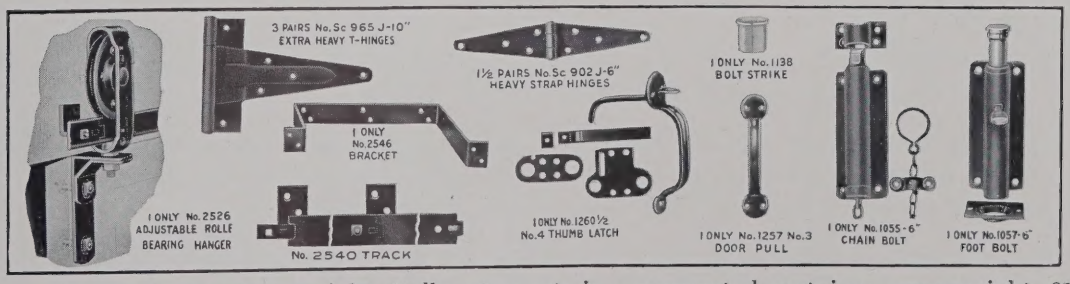
The passage door and the door hinged to the jamb are hung on 10″ extra heavy full surface T-hinges, which swing doors entirely clear of opening. The two doors which are hinged together are hung on 6″ heavy strap hinges and operate on a swivel type roller bearing hanger provided with vertical adjustment. Fastened at top and bottom with chain and foot bolts.

The passage door is equipped with a thumb latch having a padlock attachment which permits locking the door from either side.

The track is furnished in 13″ sections and the ends interlock insuring smooth operation.

8′ opening: Furnished with 6 straight pieces
10′ opening: Furnished with 7 straight pieces
12′ opening: Furnished with 8 straight pieces

Set (regularly furnished for 8′ opening) consists of:


3 PAIRS No. Sc 965 J-10" EXTRA HEAVY T-HINGES
1½ PAIRS No. Sc 902 J-6" HEAVY STRAP HINGES
1 ONLY No. 1138 BOLT STRIKE
1 ONLY No. 2546 BRACKET
1 ONLY No. 2526 ADJUSTABLE ROLLE BEARING HANGER
No. 2540 TRACK
1 ONLY No. 1260½ No. 4 THUMB LATCH
1 ONLY No. 1257 No. 3 DOOR PULL
1 ONLY No. 1055-6" CHAIN BOLT
1 ONLY No. 1057-6" FOOT BOLT

One complete set in a carton, weight, 33 lbs.; two sets in a corrugated container, gross weight, 67 lbs.

Furnished in Japanned finish

Specify Class Number and (Width of Opening if not 8′)

Separate items described elsewhere in the catalog

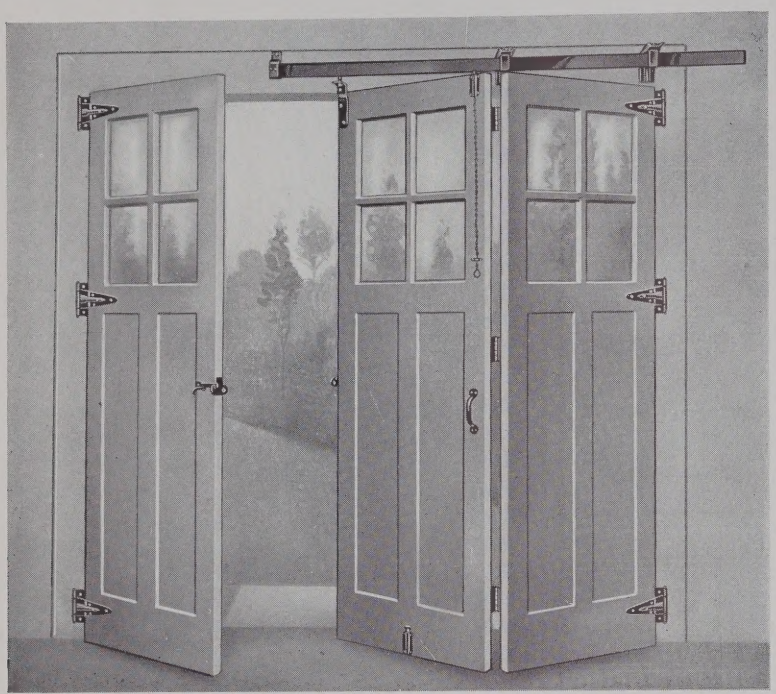
Folding Sliding Garage Door Hardware

With Trolley Track X2641 (16-gauge)

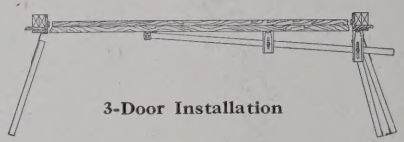
For Doors Opening In or Out

For doors not over 2″ in thickness, 3′ in width, or 150 pounds in weight

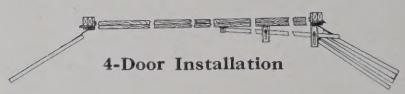
Wrought Steel



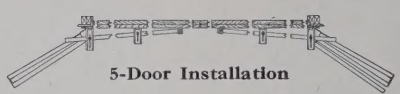
Set SX2610A-3D Inside View—Doors opening in



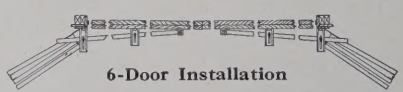
3-Door Installation



4-Door Installation



5-Door Installation



6-Door Installation

SX2610A Combinations

(See opposite page)

For openings with three, four, five or six doors; doors should be of equal width. Headroom required above top of doors is 7¼″.

Set SX2610A-3D comprises a complete set for a three-door installation with an opening 8′ in width.

The two end doors are hinged to the jamb on extra heavy full surface T-hinges. The center door is hinged to either end door on full surface hinges. On the four, five and six door sets, the end doors are hung on throw-back hinges 737.

Doors operate on four-wheel hangers provided with vertical adjustment and fitted with a ball bearing on the swivel and roller bearings in the wheels.

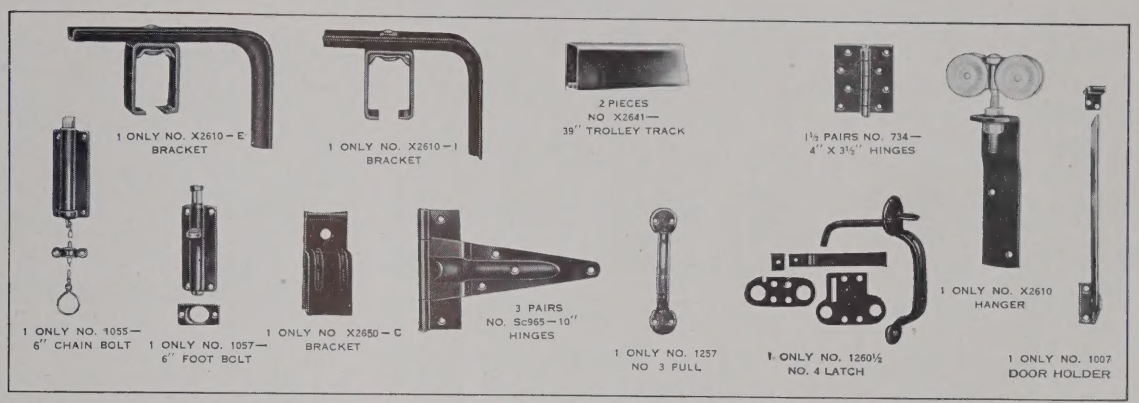
The track is perfectly straight, providing an excellent bearing surface for the double truck trolley wheels. It is securely joined and held firmly in brackets fitted with track clamps. The extension brackets are easily adjusted, permitting doors to stand open either at 90° or any angle up to 180°.

The folding doors are fastened at top and bottom with chain and foot bolts. The passage door is equipped with a thumb latch having a padlock attachment which permits locking the door from either side.

SX2610B-3D is similar to the three-door installation except all three doors are hinged together. Throw-back hinge 737 is used on the jamb and butt hinge 241J on the passage door.

Folding Sliding Garage Door Hardware

Set SX2610A-3D (for 3-door installation) consists of:


1 ONLY NO. X2610-E BRACKET
1 ONLY NO. X2610-I BRACKET
2 PIECES NO X2641— 39" TROLLEY TRACK
1½ PAIRS NO. 734— 4" X 3½" HINGES
1 ONLY NO. 1055— 6" CHAIN BOLT
1 ONLY NO. 1057— 6" FOOT BOLT
1 ONLY NO. X2650-C BRACKET
3 PAIRS NO. Sc965—10" HINGES
1 ONLY NO. 1257 NO 3 PULL
1 ONLY NO. 1260½ NO. 4 LATCH
1 ONLY NO. X2610 HANGER
1 ONLY NO. 1007 DOOR HOLDER

Average net weight, 63 lbs.

Set SX2610A-4D (for 4-door installation) consists of:

1—X2610-E Bracket	2—1055 6″ Chain Bolts	2 pieces—X2641 Trolley Track
1—X2610-I Bracket	2—1057 6″ Foot Bolts	(Length depends on size opening)
1—X2650-C Bracket	1—1260½ No. 4 Thumb Latch	3 pairs—737 Hinges
1—X2610 Hanger	1—1257 No. 3 Pull	1½ pairs—241J 4″ x 4″ Hinges
	2—1007 Bottom Door Holders	1½ pairs—734 4″ x 3½″ Hinges

Average net weight, 72 lbs.

Set SX2610A-5D (for 5-door installation) consists of:

2—X2610-E Brackets	2—1055 6″ Chain Bolts	2 pieces—X2641 Trolley Track
2—X2610-I Brackets	2—1057 6″ Foot Bolts	(Length depends on size opening)
2—X2650-C Brackets	1—1260½ No. 4 Thumb Latch	3 pairs—737 Hinges
2—X2610 Hangers	2—1257 No. 3 Pulls	1½ pairs—241J 4″ x 4″ Hinges
	2—1007 Bottom Door Holders	3 pairs—734 4″ x 3½″ Hinges

Average net weight, 126 lbs.

Set SX2610A-6D (for 6-door installation) consists of:

2—X2610-E Brackets	3—1055 6″ Chain Bolts	2 pieces—X2641 Trolley Track
2—X2610-I Brackets	3—1057 6″ Foot Bolts	(Length depends on size opening)
2—X2650-C Brackets	1—1260½ No. 4 Thumb Latch	3 pairs—737 Hinges
2—X2610 Hangers	2—1257 No. 3 Pulls	3 pairs—241J 4″ x 4″ Hinges
	2—1007 Bottom Door Holders	3 pairs—734 4″ x 3½″ Hinges

Average net weight, 158 lbs.

One complete set in a case. Track for four, five and six door sets bundled separately.

Furnished in Japanned finish, trolley Cadmium Plated

Specify Class Number and Width of Opening

Separate items described elsewhere in the catalog

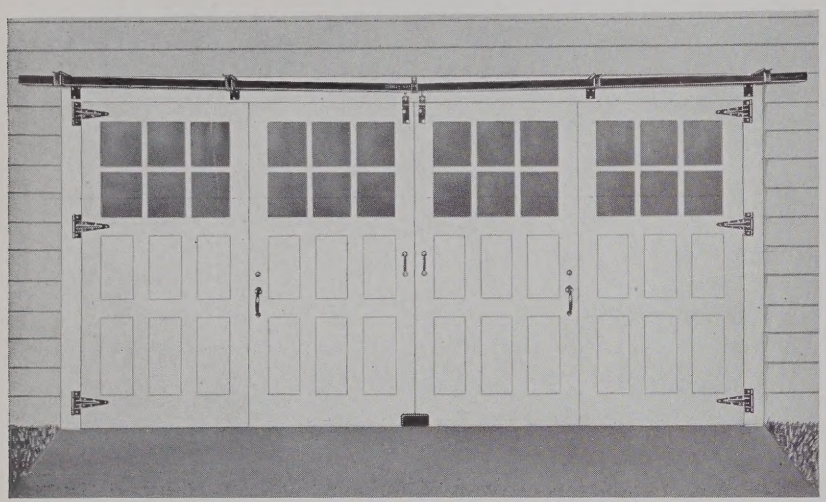
Folding Sliding Garage Door Hardware

With Trolley Track X2641 (16-gauge)

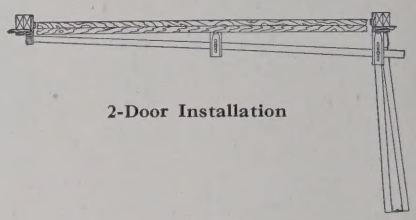
For Doors Opening Out

For doors not over 2″ in thickness, 4′ in width, or 150 pounds in weight

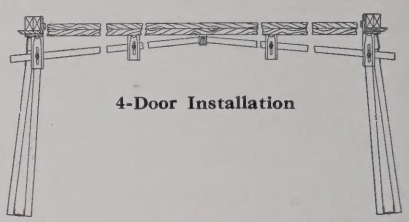
Wrought Steel



Set SX2610C-4D Outside View



2-Door Installation



4-Door Installation

With "Kee-Bolt"

Set SX2610C-2D (for **2-door** installation)
Set SX2610C-4D (for **4-door** installation)

With Chain and Foot Bolts

Set SX2610D-2D (for **2-door** installation)
Set SX2610D-4D (for **4-door** installation)

(See opposite page)

For openings with two or four doors; doors should be of equal width. Headroom required above top of doors is 7¼″.

Recommended where conditions will not permit swinging single doors to both sides of the opening; also for a four-door opening of 16′ without center posts. On an 8′ opening it allows two 4′ x 8′ doors to fold and slide to one jamb leaving the opposite jamb free. No passage door is required.

Doors are hinged together with full surface offset hinges, and hung from the jamb on extra heavy full surface T-hinges.

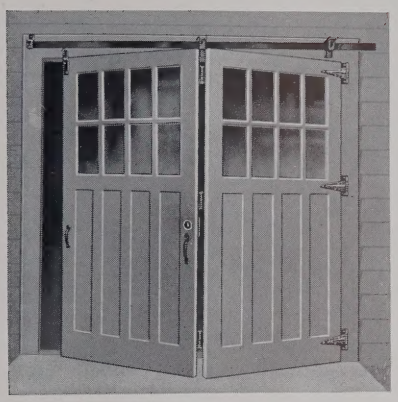
The track is perfectly straight, providing an excellent bearing surface for the double truck trolley wheels. It is held firmly in brackets fitted with track clamps. The extension brackets are easily adjusted, permitting doors to stand open either at 90° or any angle up to 180°.

Doors operate on four-wheel hangers provided with vertical adjustment and fitted with a ball bearing on the swivel and roller bearings in the wheels.

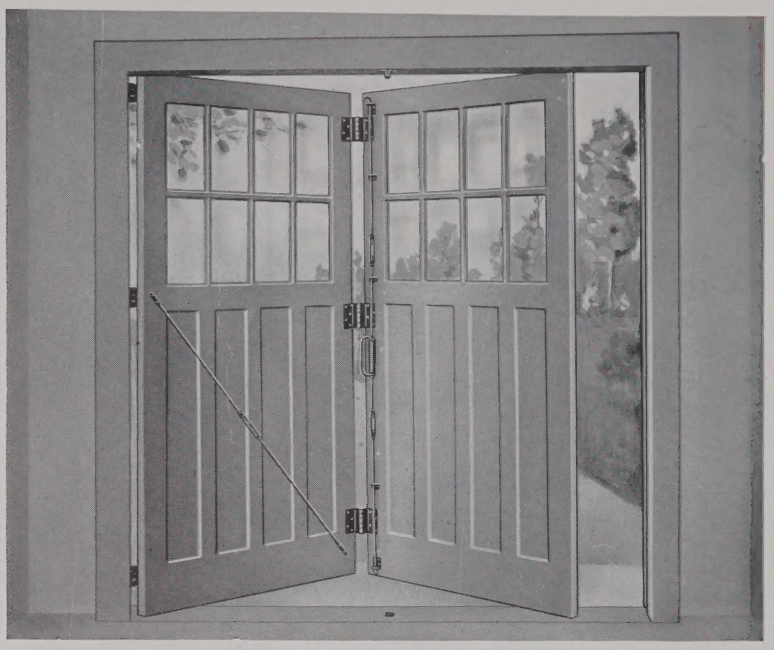
The "Kee-Bolt" acts not only as a bolt but also latches and locks both doors. It is possible to master-key the bolt with the locks on the house so that one key can be used for both.

A sturdy brace fitted with a turnbuckle prevents the doors from sagging.

Folding Sliding Garage Door Hardware

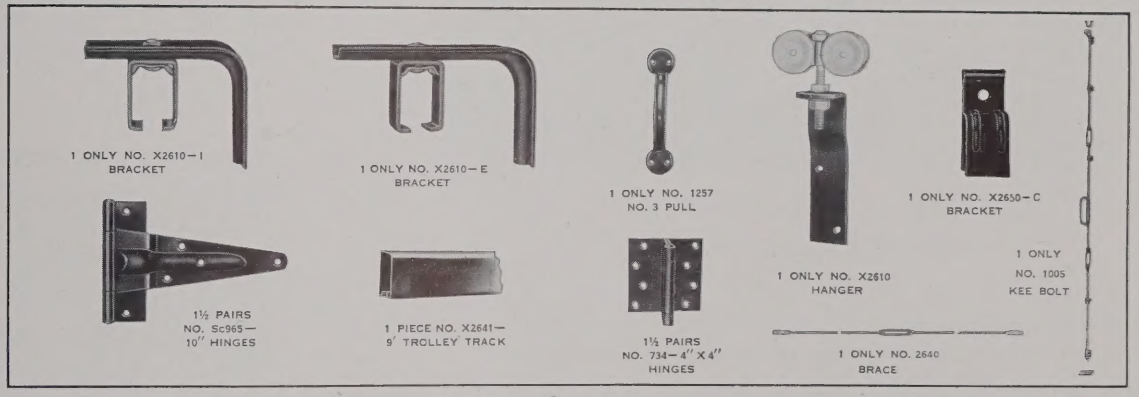


Outside View



Set SX2610C-2D Inside View

Set SX2610C-2D (for 2-door installation) consists of:


1 ONLY NO. X2610—I BRACKET
1 ONLY NO. X2610—E BRACKET
1 ONLY NO. 1257 NO. 3 PULL
1 ONLY NO. X2650—C BRACKET
1½ PAIRS NO. Sc965—10" HINGES
1 PIECE NO. X2641—9' TROLLEY TRACK
1½ PAIRS NO. 734—4" X 4" HINGES
1 ONLY NO. X2610 HANGER
1 ONLY NO. 1005 KEE BOLT
1 ONLY NO. 2640 BRACE

Set SX2610C-4D (for 4-door installation) consists of two complete sets as above with the addition of one pair center floor door guides 2550.

Set SX2610D-2D (for 2-door installation) consists of:

1—X2610-E Bracket
1—X2610-I Bracket
1—X2650-C Bracket
1—X2610 Hanger
1—1055 6" Chain Bolt
1—1057 6" Foot Bolt
2—1257 No. 3 Pulls
1 piece—X2641 9' Trolley Track
1½ pairs—Sc965 10" Hinges
1½ pairs—734 4" x 3½" Hinges

Set SX2610D-4D (for 4-door installation) consists of two complete sets SX2610D-2D with the addition of one pair padlock eyes 1245—No. 3 and one pair center floor door guides 2550.

One complete set in a case. Weights: SX2610C-2, 44 lbs.; SX2610D-2D, 38 lbs.

Track bundled separately. Weight, 14½ lbs.

Furnished in Japanned finish, trolley Cadmium Plated

Specify Class Number, Width of Opening, also (Make of Cylinder for "Kee-Bolt" on Sets SX2610C-2D and 4D)

Separate items described elsewhere in the catalog

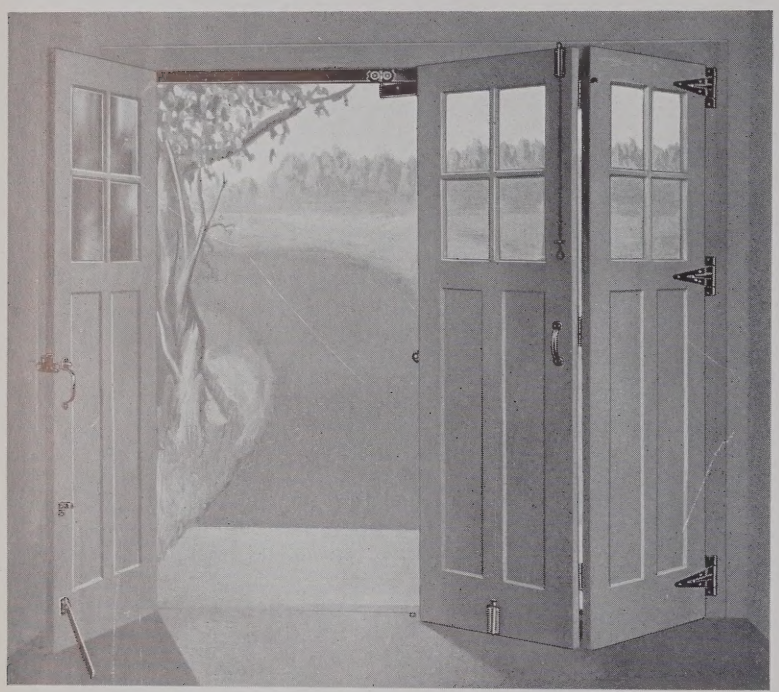
Folding Sliding Garage Door Hardware

With Trolley Track X2643 (16-gauge)

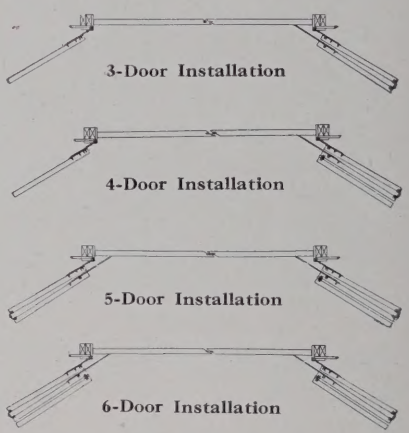
"UNDER-SOFFIT" For Doors Opening In or Out

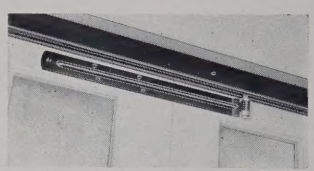
For doors not over 2″ in thickness, 3′ in width, or 150 pounds in weight

Wrought Steel



Set SX2613-3D Inside View—Doors opening in





Outside View
Doors opening in

Outside View
Doors opening out

SX2613 Combinations

(See opposite page)

For openings with three, four, five or six doors; doors should be of equal width. **No headroom required.**

The two end doors are hinged to the jambs on extra heavy full surface T-hinges. The center door is hinged to either end door on full surface hinges (for 3-door installation). The center doors of each group of three doors for the four, five or six door installations are similarly hung, with the third door in each group hinged on full mortise butt hinges.

The track is screwed to the underside of the soffit or header and is fastened at ends by brackets attached to the side jambs. Only seven screws are necessary to mount the track for an 8′ opening. The track also acts as a stop.

The four-wheel hanger is attached to the door by a rigid arm fastened to the top rail. Hanger is adjustable vertically. Furnished with a ball bearing on the swivel and roller bearings in the wheels. Doors slide easily and quietly.

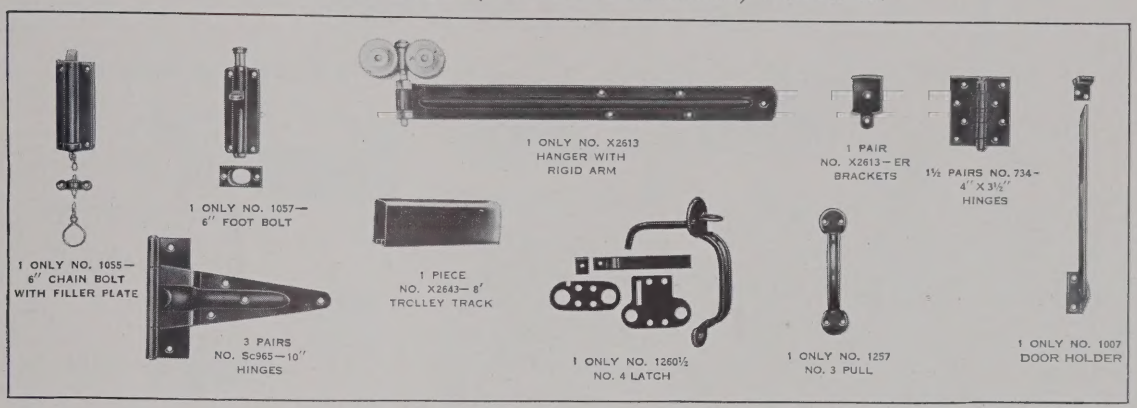
The folding doors are fastened at top and bottom with chain and foot bolts. The passage door (on three and four door sets) is equipped with a thumb latch having a padlock attachment, which permits locking the door from either side. On five and six door sets, the thumb latch is applied between the two groups of doors.

Where it is desired to use two 4′ x 8′ doors to fold to one side, use Set SX2613½-2D; for four doors, two doors folding to each side, use Set SX2613½-4D **(see page 230).**

Folding Sliding Garage Door Hardware

"UNDER-SOFFIT"

Set SX2613-3D (for 3-door installation) consists of:


1 ONLY NO. 1055—6" CHAIN BOLT WITH FILLER PLATE
1 ONLY NO. 1057—6" FOOT BOLT
3 PAIRS NO. Sc965—10" HINGES
1 ONLY NO. X2613 HANGER WITH RIGID ARM
1 PIECE NO. X2643—8' TROLLEY TRACK
1 ONLY NO. 1260½ NO. 4 LATCH
1 PAIR NO. X2613—ER BRACKETS
1½ PAIRS NO. 734—4" X 3½" HINGES
1 ONLY NO. 1257 NO. 3 PULL
1 ONLY NO. 1007 DOOR HOLDER

Average net weight, 40 lbs.

Set SX2613-4D (for 4-door installation) consists of:

1 pair—X2613-ER Brackets
1—X2613 Hanger with rigid arm
2—1055 6" Chain Bolts with filler plate
2—1057 6" Foot Bolts
1—1260½ No. 4 Thumb Latch
2—1257 No. 3 Pulls
2—1007 Bottom Door Holders
1 piece—X2643 Trolley Track
(Length depends on size opening)
3 pairs—737 Hinges
1½ pairs—241J 4" x 4" Hinges
1½ pairs—734 4" x 3½" Hinges

Average net weight, 50 lbs.

Set SX2613-5D (for 5-door installation) consists of:

1 pair—X2613-ER Brackets
2—X2613 Hangers with rigid arms
2—1055 6" Chain Bolts with filler plates
2—1057 6" Foot Bolts
1—1260½ No. 4 Thumb Latch
3—1257 No. 3 Pulls
2—1007 Bottom Door Holders
2 pieces—X2643 Trolley Track
(Length depends on size opening)
3 pairs—737 Hinges
1½ pairs—241J 4" x 4" Hinges
3 pairs—734 4" x 3½" Hinges

Average net weight, 77 lbs.

Set SX2613-6D (for 6-door installation) consists of:

1 pair—X2613-ER Brackets
2—X2613 Hangers with rigid arms
3—1055 6" Chain Bolts with filler plates
3—1057 6" Foot Bolts
1—1260½ No. 4 Thumb Latch
3—1257 No. 3 Pulls
2—1007 Bottom Door Holders
2 pieces—X2643 Trolley Track
(Length depends on size opening)
3 pairs—737 Hinges
3 pairs—241J 4" x 4" Hinges
3 pairs—734 4" x 3½" Hinges

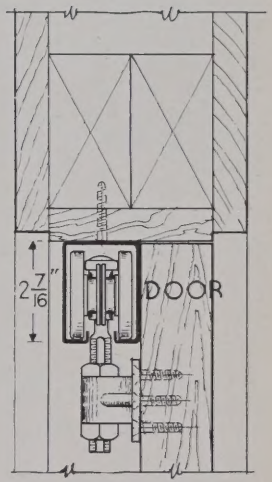
Average net weight, 85 lbs.

One complete set in a case. Track bundled separately.

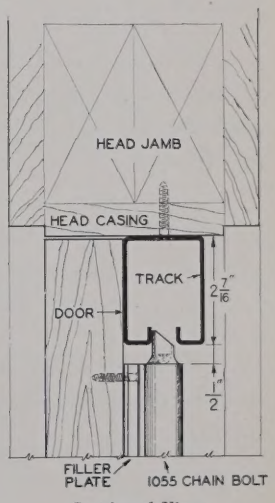
Furnished in Japanned finish, trolley Cadmium Plated

Specify Class Number and Width of Opening

Separate items described elsewhere in the catalog



Sectional View
Showing how track is applied under soffit.



Sectional View
Showing application of chain bolt. Door in closed position against track which serves as a stop.

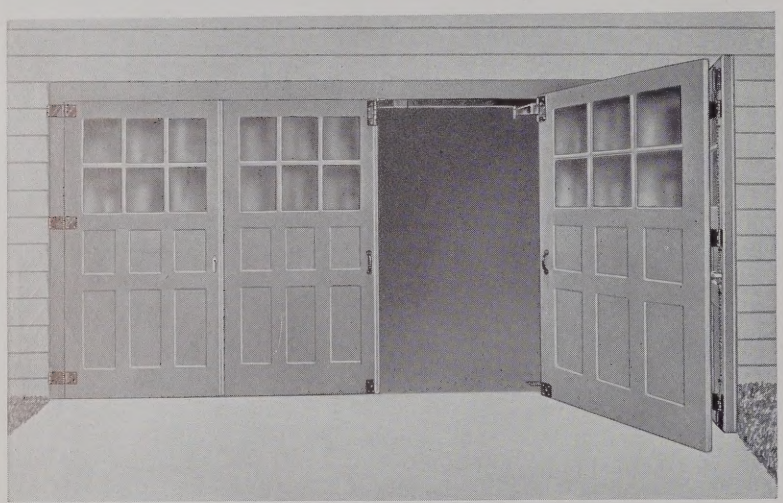
Folding Sliding Garage Door Hardware

With Trolley Track X2643 (16-gauge)

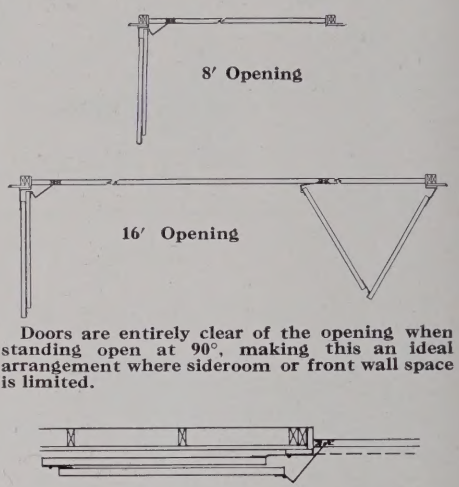
"UNDER-SOFFIT" For Doors Opening Out

For doors not over 2″ in thickness, 4′ in width, or 150 pounds in weight

Wrought Steel



Set SX2613½-4D Outside View



Doors are entirely clear of the opening when standing open at 90°, making this an ideal arrangement where sideroom or front wall space is limited.

Showing doors opened at 180°

Set SX2613½-2D (for 8′ opening) **Set SX2613½-4D (for 16′ opening)**

(See opposite page)

For 8′ opening using two 4′ x 8′ doors and 16′ opening using four 4′ x 8′ doors. **No headroom required.**

The doors which are hinged to the jambs are equipped with full surface throw-back hinges. The doors which are hinged together are equipped with full surface hinges, which permit them to lie almost flat against each other. When open at 90°, all doors are clear of the opening. Hardware permits doors to be opened at 180°.

The track is screwed to the underside of the soffit or header and fastened at the ends by brackets attached to the side jambs. On 16′ openings the track is supported in the center by two track supports attached to the soffit. The track is perfectly straight, providing an excellent bearing surface for the double truck trolley wheels. The track also acts as a stop.

The four-wheel hanger is attached to the door by a hinged arm, fastened to the top rail. Hanger is adjustable vertically. Furnished with a ball bearing on the swivel and roller bearings in the wheels.

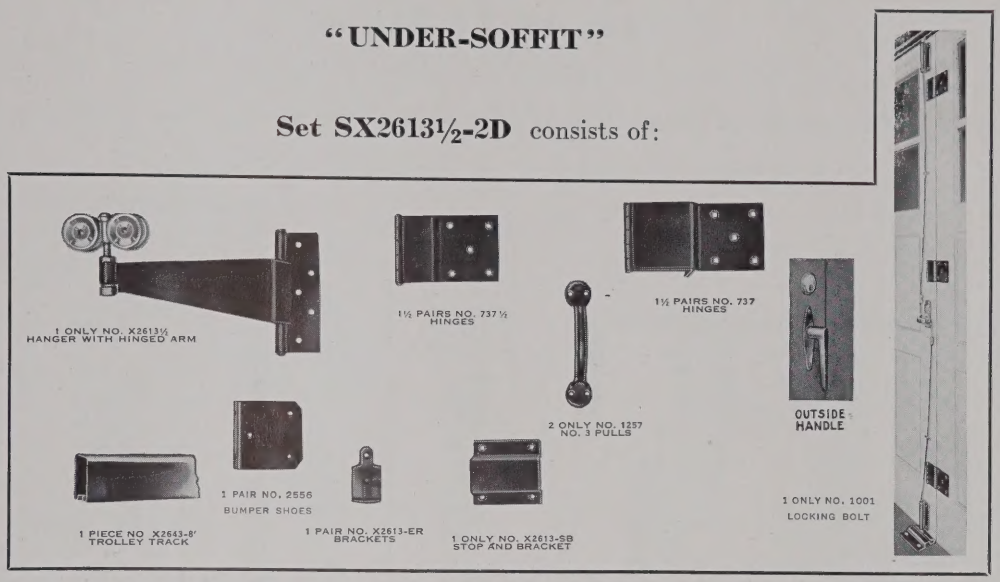
Doors are fastened at top and bottom by a locking bolt provided with a cylinder, one for each pair of doors. A slight turn of the key unlocks the bolt and a turn of either the outside or inside handle releases it. It is possible to master-key the bolt with the locks on the house so that one key can be used for both.

Bumper shoes protect edges of the door, and the door guides make it easy to close them.

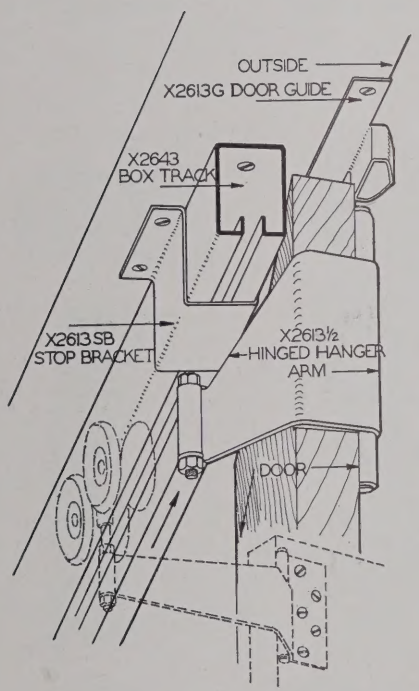
Folding Sliding Garage Door Hardware

"UNDER-SOFFIT"

Set SX2613½-2D consists of:

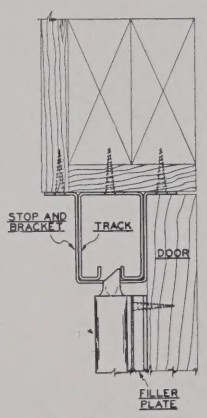

1 ONLY NO. X2613½ HANGER WITH HINGED ARM
1½ PAIRS NO. 737½ HINGES
1½ PAIRS NO. 737 HINGES
2 ONLY NO. 1257 NO. 3 PULLS
OUTSIDE HANDLE
1 PAIR NO. 2556 BUMPER SHOES
1 ONLY NO. 1001 LOCKING BOLT
1 PIECE NO. X2643-8' TROLLEY TRACK
1 PAIR NO. X2613-ER BRACKETS
1 ONLY NO. X2613-SB STOP AND BRACKET

Set SX2613½-4D consists of two complete sets as above, with the addition of door guide X2613-G and one pair of floor door guides 2550.



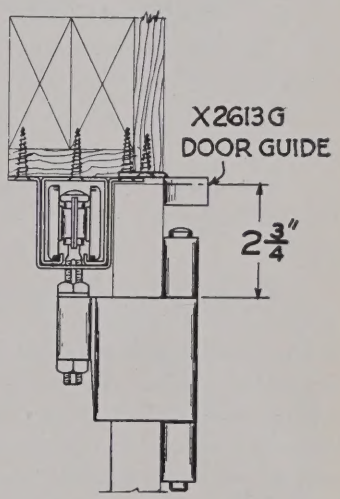
Showing Operation of Hanger X2613½ with Hinged Arm

When hanger bolt strikes track bracket it arrests travel of hanger, swinging door into closed position behind the guide.



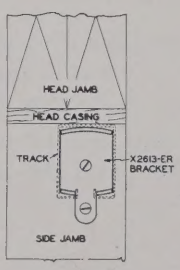
Sectional View

Showing bolt head engaged with track, which with bracket serves as a stop.



Sectional View

Showing how track is applied under soffit; also application of Door Guide X2613-G.



Sectional View

Showing application of Bracket X2613-ER

One complete set in a case. Weights: SX2613½-2D, 25½ lbs.; SX2613½-4D, 50 lbs. Track bundled separately, weight, 8′ opening, 12½ lbs.

Furnished in Japanned finish, trolley Cadmium Plated

Specify Class Number and exact Width of Opening between finished jambs

Separate items described elsewhere in the catalog

Folding Sliding Garage Door Hardware

Hanger and Bracket Set

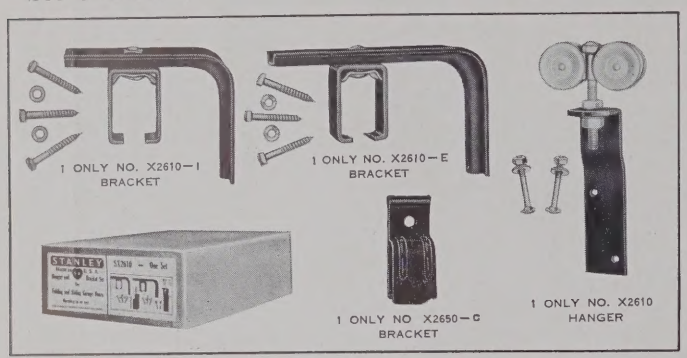
For use with Trolley Track X2641 (16-gauge)

For doors up to 2″ in thickness, **150** *pounds in weight, used in openings up to* **16′** *wide by* **8′** *high*

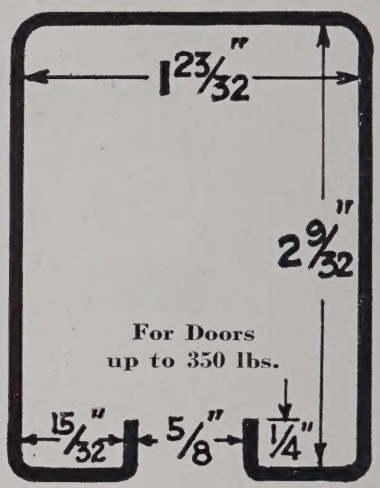
Ball Bearing Swivel Roller Bearing Wheels

Wrought Steel

Set consists of:



Extension Brackets furnished with the "Hold-Fast" Clamp featured on page 250



Full Size Cross Section

Trolley Track X2641 (16-gauge)

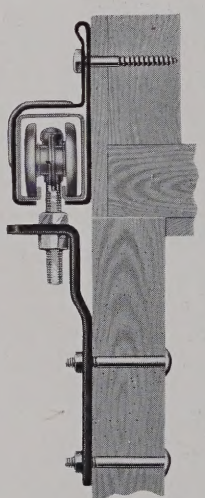
Set SX2610

For folding sliding garage doors with two, three, four, five or six doors. Headroom required above top of doors is 7¼″.

The four-wheel hanger is the most vital working part of the set and, as such, no effort has been spared to make it the finest obtainable. It is equipped with a ball bearing on the swivel and roller bearings in the wheels, providing absolute freedom from squeaking or binding. Provided with both vertical and lateral adjustment, which can be set at any position. Diameter of wheels, 2⅛″. Apron, 7¾″ x 2″ x 2-gauge. Projection, 2 9/16″.

The extension brackets are furnished with the "Hold-Fast" clamp, which clamps the track firmly in the brackets. They are easily adjusted. The other bracket is so designed that tightening the lag screw, when mounting it, draws it tightly around the track, holding the track firmly in place.

Swivel Trolley Hanger



Sectional View

Hanger X2610, Bracket X2650-C and Trolley Track X2641

X2610 Weight, 3 lbs.

With this set it is possible to make various combinations, such as Sets SX2610A, B, C and D (see pages 224-227).

One complete set in a box with carriage bolts and lag screws, six sets in a case. Case weight, 68 lbs.

Furnished in Japanned finish, trolley Cadmium Plated

Specify Class Number

Brackets described elsewhere in the catalog

Straight Sliding Door Hardware

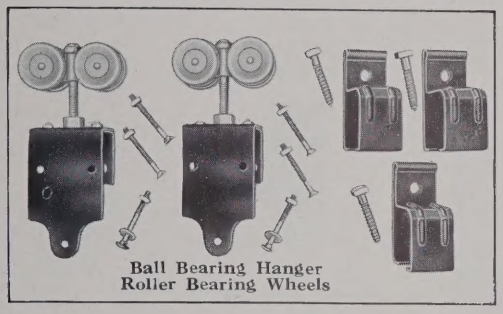
Hanger and Bracket Sets

For use with Trolley Track X2641 (16-gauge)

For doors up to 350 pounds in weight

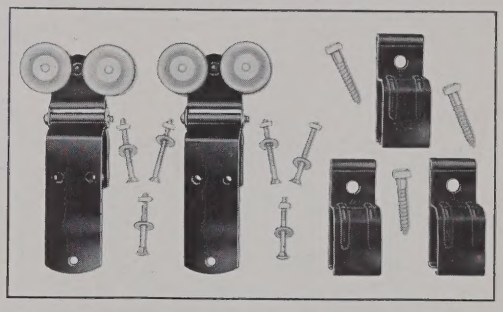
Wrought Steel

With Adjustable Hangers
For doors 1⅝″ to 2¼″ in thickness



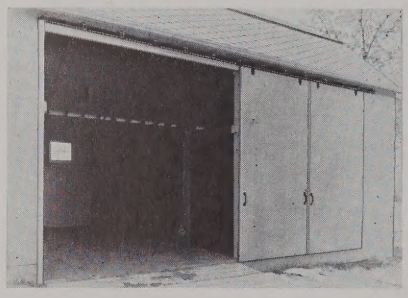
Ball Bearing Hanger
Roller Bearing Wheels

With Non-Adjustable Hangers
For doors 1¾″ to 2″ in thickness



Set SX2650 consists of:

1 Pair Hangers X2650
3 Brackets X2650-C
2 End Caps X2641-EC
With bolts and lag screws



Applied to barn

Set SX2650½ consists of:

1 Pair Hangers X2650½
3 Brackets X2650-C
2 End Caps X2641-EC
With bolts and lag screws

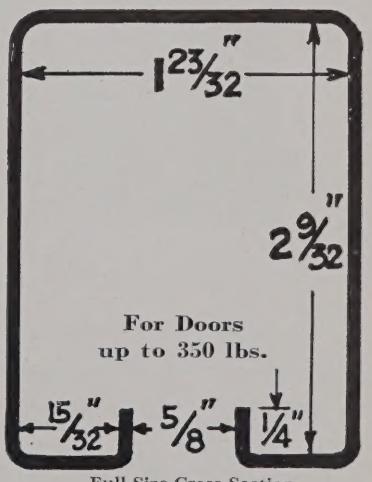
For straight sliding doors.

Brackets are so designed that tightening the lag screws, when mounting, draws them tightly around the track, holding the track firmly in place.

Brackets should be spaced 2′ on centers.

Set SX2650. Four-wheel hanger is equipped with a ball bearing on the swivel and roller bearings in the wheels. Hanger is made with both vertical and lateral adjustment, which can be set at any position. Aprons provide bearing surface on each side of the door. See page 241.

Set SX2650½. Four-wheel hanger is made with aprons hinged, allowing a swing-out feature. Aprons provide bearing surface on each side of the door. See page 241.



Full Size Cross Section
Trolley Track X2641 (16-gauge)

One complete set in a box. Weights: SX2650, 8 lbs.; SX2650½, 7½ lbs.

Track furnished separately in 4′, 6′, 8′, 9′, and 10′ lengths.

Furnished in Japanned finish, trolley Cadmium Plated

Specify Class Number

Separate items described elsewhere in the catalog

Straight Sliding Door Hardware

Hanger and Bracket Set

For Barns

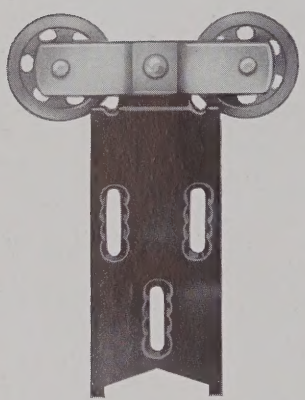
For use with Weatherproof Track (16-gauge)

For doors not over 2¼″ in thickness, or 300 pounds in weight

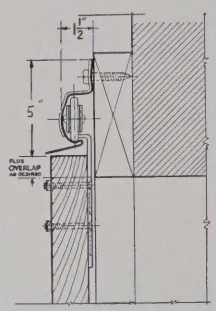
Wrought Steel

Roller Bearing Wheels

Hanger



X2657



Sectional View

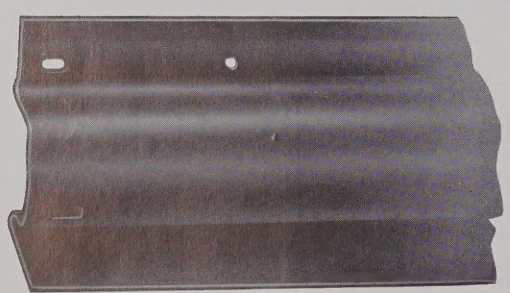
End Cap

X2647-EC

Joint Bracket

X2657-B

Weatherproof Track



X2647

Set SX2657 consists of:

1 Pair Hangers X2657
1 Bracket X2657-B
2 End Caps X2647-EC
With bolts, lag screws and nails

Set SX2657

For straight sliding doors. Headroom required above top of doors is 5″.

Hanger is made with roller bearing machine-turned cast wheels 2⅛″ in diameter; size of apron 5¾″ x 2½″ x 7-gauge. Vertical adjustment is provided by slotted bolt holes in the apron. Furnished separately under X2657.

Track is formed in one piece of 16-gauge steel and is weatherproof and bird-proof. Single sections of track require no brackets, being fastened directly to the building. Two sections are held together in perfect alignment by the joint bracket.

One complete set in a box, weight, 3 lbs. Track furnished separately in 6′, 8′ and 10′ lengths, four pieces in a bundle, weight per foot, 1¾ lbs.

Furnished in Japanned finish

Specify Class Number, also (Length of Track when ordered)

Heavy Straight Sliding Door Hardware

Hanger and Bracket Set

For Barns

For use with Weatherproof Track (14-gauge)

For doors 1¾″ to 2½″ in thickness, or 500 pounds in weight

Wrought Steel

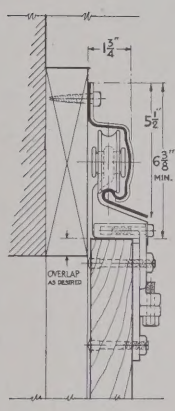
Roller Bearing Wheels

End Cap

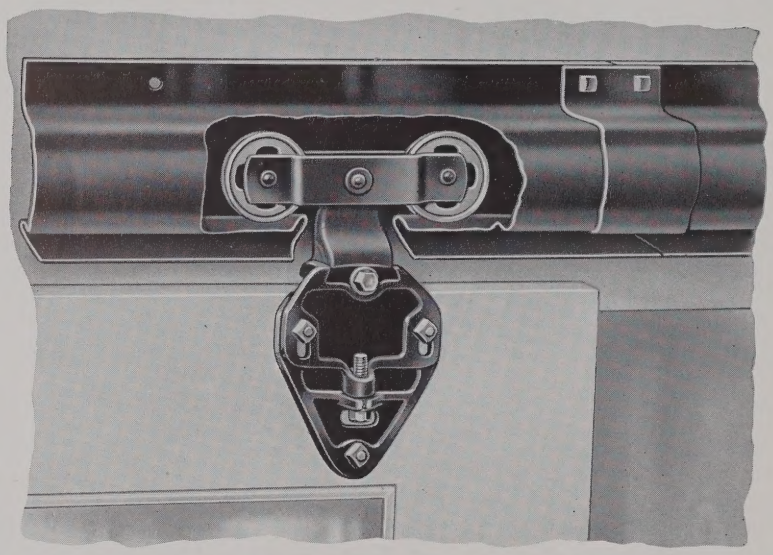
Y2647-EC

Joint Bracket

Y2657-B



Sectional View



Hanger Y2657

Track Y2647

Set SY2657 consists of:
1 Pair Hangers Y2657
1 Joint Bracket Y2657-B
2 End Caps Y2647-EC
With bolts, lag screws and nails

Set SY2657

For straight sliding doors. Headroom required above top of doors is 6″.

Hangers are made of malleable iron except the hardened steel roller bearings, axles and steel saddle. Wheels are 2 9/16″ in diameter. Size of apron, 5⅝″ x 4⅜″. Made with both vertical and lateral adjustment, which can be set in any position. Furnished separately under Y2657.

Joint bracket is provided with a hole for oiling the bearings in the hanger wheels.

Track is formed in one piece of 14-gauge steel and is bird-proof and weatherproof. Two sections are held together in perfect alignment by the joint bracket, and secured to the building with lag screws and nails. Single sections of track require no brackets, being fastened directly to the building.

One complete set in a box, weight, 11 lbs. Track furnished separately: 6′—four pieces in a bundle; 8′—two pieces; 10′—two pieces, weight, per foot, 2½ lbs.

Furnished in Japanned finish

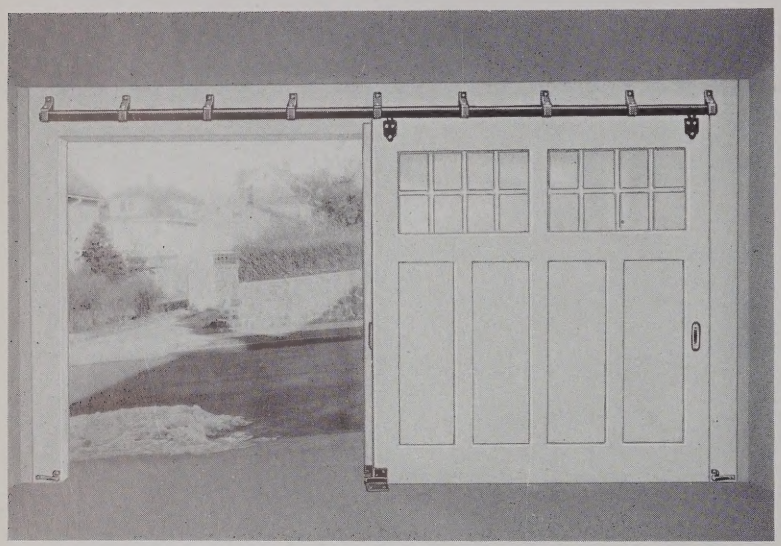
Specify Class Number, also (Length of Track when ordered)

Parallel Sliding Garage Door Hardware

With Trolley Track X2641 (16-gauge)

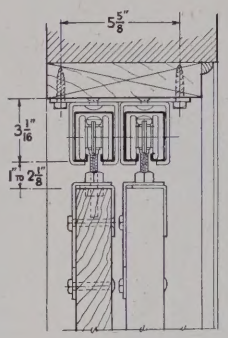
For doors 1⅝″ to 2¼″ in thickness, up to 350 pounds in weight

Wrought Steel

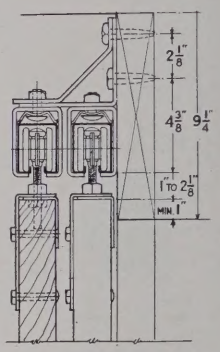


Inside View

Track securely held in place with the "Hold-Fast" Clamp featured on page 250.

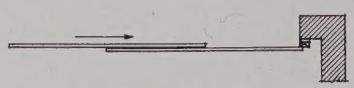


Sectional View
Showing center overhead bracket

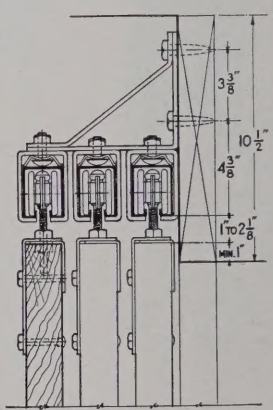


Sectional View
Showing side wall bracket

Doors closed



One door partly open



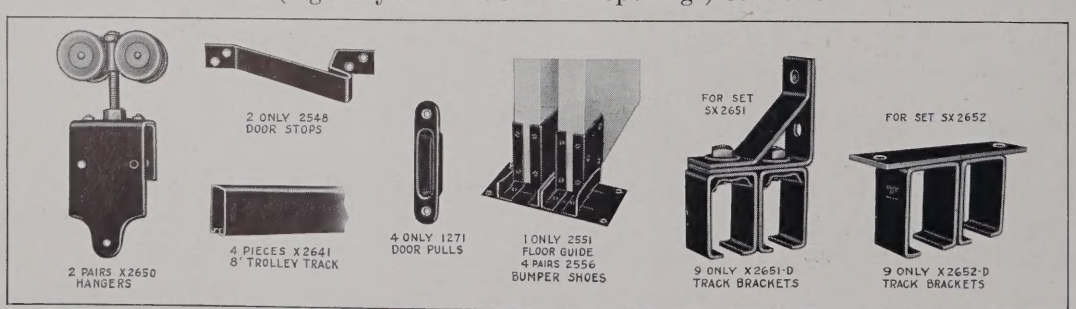
Sectional View
Showing side wall bracket for three parallel doors

Set SX2651 With Side Wall Brackets
Set SX2652 With Center Overhead Brackets

For openings of any width with two or more doors. Headroom required above top of doors when side brackets are used is 9¼″.

Doors slide on double truck hangers equipped with a ball bearing on the swivel and roller bearings in the wheels. Hanger is made with both vertical and lateral adjustment which can be set in any position. Aprons provide bearing surface on each side of the door. Track brackets are spaced 2′ on centers.

Sets (regularly furnished for 16′ openings) consist of:


2 PAIRS X2650 HANGERS
2 ONLY 2548 DOOR STOPS
4 PIECES X2641 8′ TROLLEY TRACK
4 ONLY 1271 DOOR PULLS
1 ONLY 2551 FLOOR GUIDE
4 PAIRS 2556 BUMPER SHOES
FOR SET SX2651
9 ONLY X2651-D TRACK BRACKETS
FOR SET SX2652
9 ONLY X2652-D TRACK BRACKETS

One complete set in a case, weight, 52 lbs. Track bundled separately, weight, 53 lbs.

Furnished in Japanned finish, trolley Cadmium Plated

Specify Class Number and (Width of Opening if not 16′)

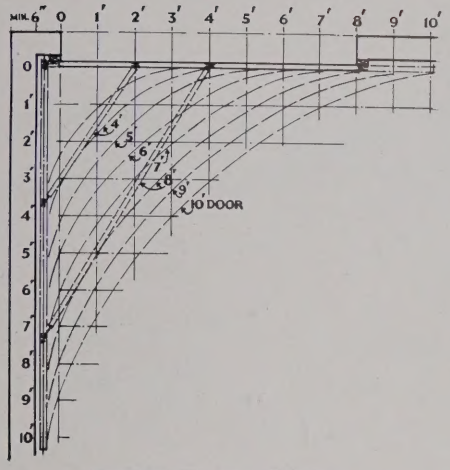
Separate items described elsewhere in the catalog

Right Angle Garage Door Hardware

With Trolley Track X2641 (16-gauge)

For doors up to 250 pounds in weight

Wrought Steel

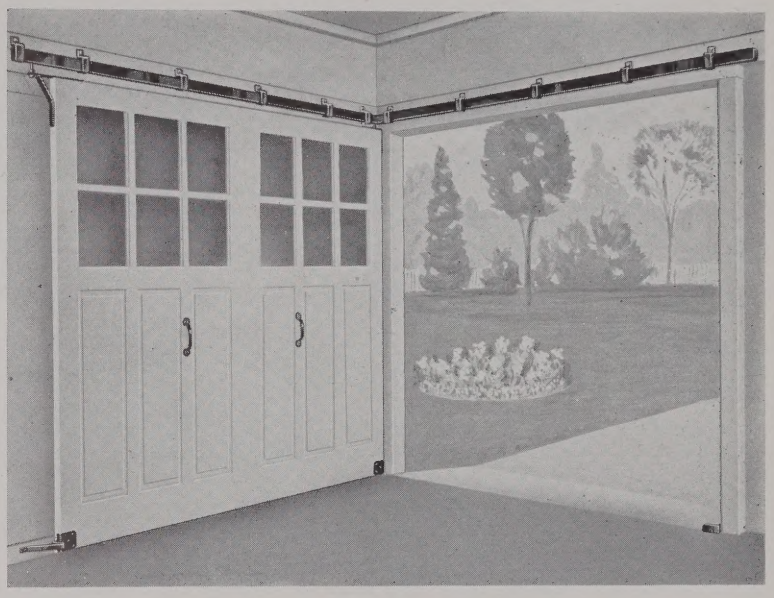


Doorway Clearance Diagram

Examples

	Space from Side Jamb 4′ 0″ Door	8′ 0″ Door
1′ 0″ From Inside Door Frame	1′ 9″	5′ 4″
2′ 0″ " " " "	10″	3′ 9″
3′ 0″ " " " "	2″	2′ 8″
4′ 0″ " " " "	..	1′ 9″
5′ 0″ " " " "	..	1′ 0″

And so on. Clearances exclusive of handles, etc.



Inside View

Set SX2606

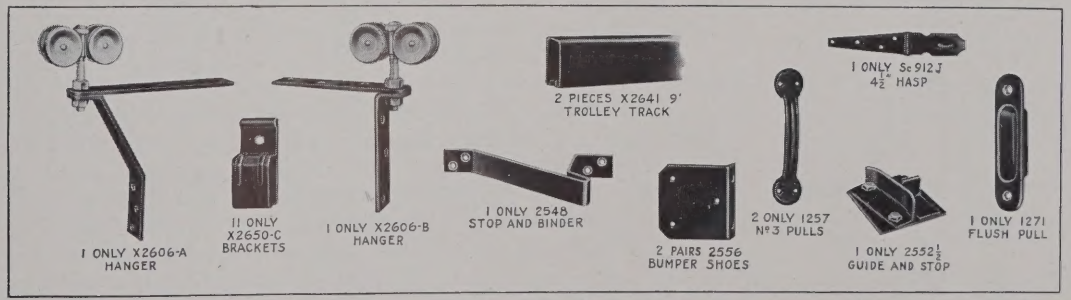
Recommended for industrial and residential installations where sideroom or front wall space is limited. The arrangement of doors is in no way complicated. Heavy doors operate very easily. Headroom required above top of door is 6¼″.

The door when open stands along the wall at right angles to the opening, inside the building.

The four-wheel hangers, provided with vertical adjustment, are equipped with a ball bearing on the swivel and roller bearings in the wheels.

Hardware can be furnished to meet various doorway conditions and arrangements, including single and double doors. Illustration shows a single 8′ x 8′ door swung to one side. Suitable hardware can be furnished on order for 4′ doors in an 8′ opening swinging the door to either side inside.

Set (regularly furnished for one-piece 8′ x 8′ door) consists of:


1 ONLY X2606-A HANGER
11 ONLY X2650-C BRACKETS
1 ONLY X2606-B HANGER
2 PIECES X2641 9′ TROLLEY TRACK
1 ONLY 2548 STOP AND BINDER
2 PAIRS 2556 BUMPER SHOES
2 ONLY 1257 N°3 PULLS
1 ONLY Sc 912 J 4½″ HASP
1 ONLY 2552½ GUIDE AND STOP
1 ONLY 1271 FLUSH PULL

One complete set in a case, weight, 28 lbs. Track bundled separately, weight, 30 lbs.

Furnished in Japanned finish, trolley Cadmium Plated

Specify Class Number, Width of Opening, Number and Arrangement of Doors

If possible, send sketch of opening

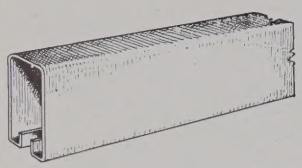
Separate items described elsewhere in the catalog

Accordion Door Hardware

For use with Trolley Track X2641 (16-gauge)

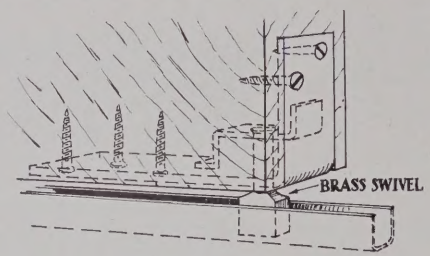
For doors up to 1¾″ in thickness

Wrought Steel

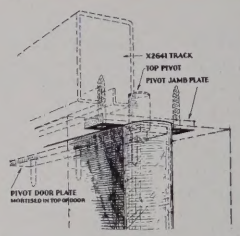


X2641
Trolley Track

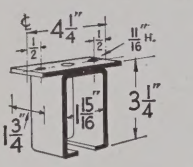
1273
Flush Pull



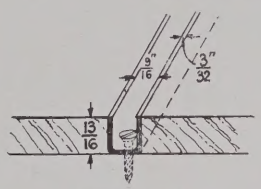
2670-DG
Bottom Door Guide
for Plan B



2670-TP
Top Pivot

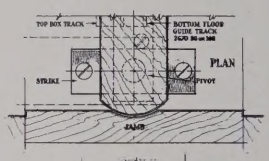


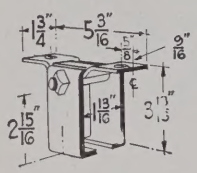
X2652
Ear Bracket



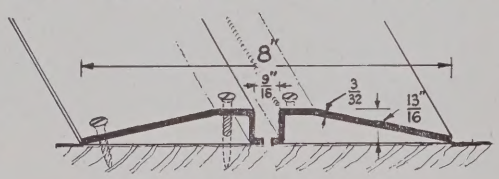
2670-MG
Mortise Door Guide Track

2670-BG
Bottom Door Guide for Plan A

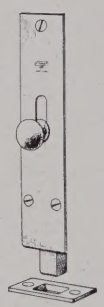




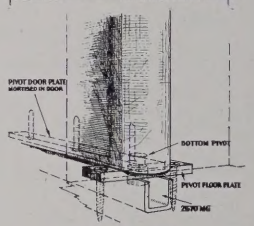
X2652½
Split Ear Bracket



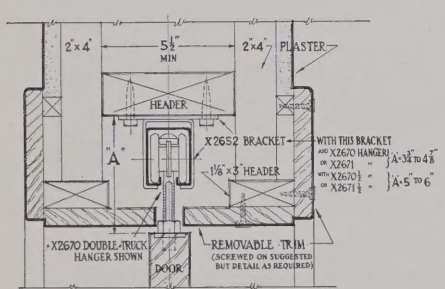
2670-SG
Surface Door Guide Track

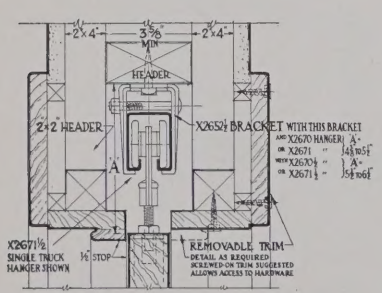


0393
Flush Bolt



2670-BP
Bottom Pivot





Details showing typical overhead construction for supporting track

Material Required

Plan A (See opposite page)

Each opening requires: one run of track X2641 (length equal to width of opening), sufficient brackets X2652 or X2652½ spaced as shown. Guide Track 2670-MG or 2670-SG is recommended.

Each pair of doors requires: one hanger X2670, one 6″ flush bolt, one flush door pull, three pairs butt hinges (as specified), and in addition at least one 9″ flush bolt for top of one pair of doors as shown. Guide 2670-BG, one for each door, is recommended.

Plan B (See opposite page)

Each opening requires: one run of track X2641 (length equal to width of opening), sufficient brackets X2652 or X2652½ spaced as shown, one surface (2670-SG) or mortise (2670-MG) type door guide track (length equal to width of opening).

Each pair of doors requires: two hangers X2671½ (except end door which is pivoted and requires no hanger or bottom guide), one and one-half pairs butt hinges (as specified), one 6″ flush bolt, one flush door pull, two bottom door guides (2670-DG), and in addition one top and one bottom pivot for end door as shown.

The split ear bracket X2652½ is offered where conditions prevent the use of the one-piece type X2652.

Stanley Ball Bearing Butt Hinges are recommended, 3½″ x 3½″ for doors 1⅜″ in thickness, 4″ x 4″ for doors 1¾″ in thickness.

Flush bolts, butt hinges and pulls furnished in Plated finishes, other items Japanned.

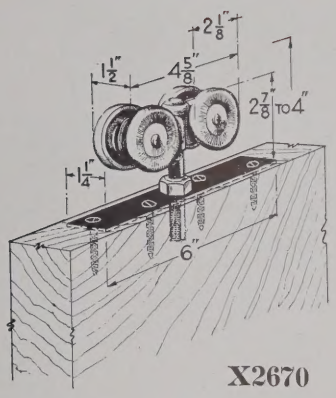
Specify Class Number, Finish and Width of Opening

Accordion Door Hangers

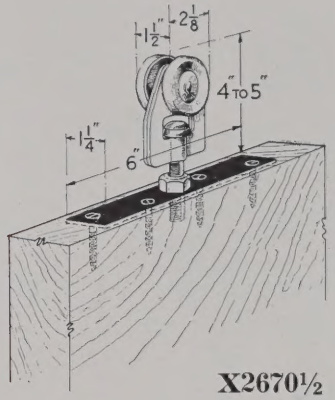
For use with Trolley Track X2641 (16-gauge)

For doors up to 1¾″ in thickness

Wrought Steel

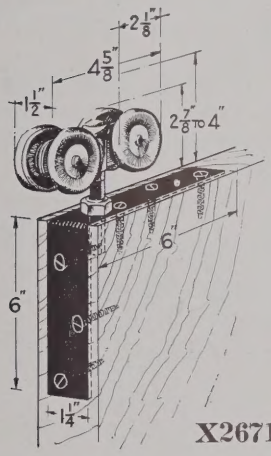


X2670

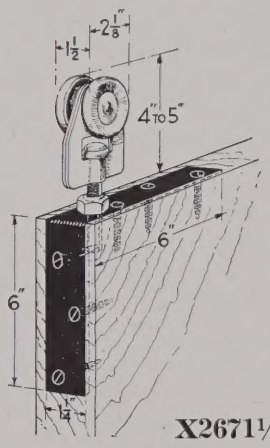


X2670½

Ball Bearing Swivel
Roller Bearing Wheels

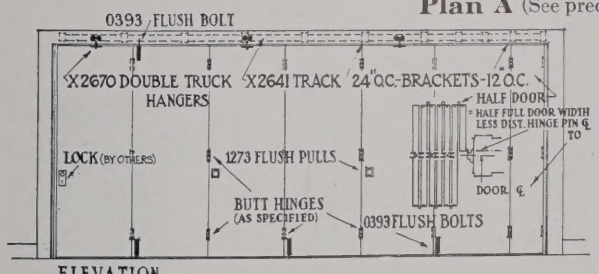


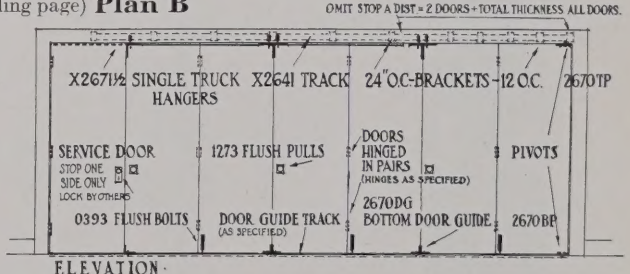
X2671

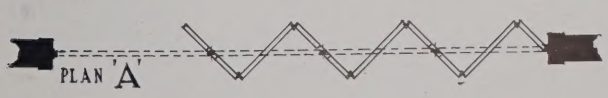


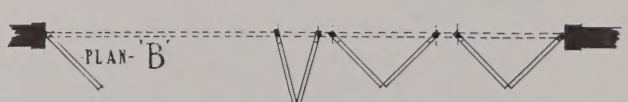
X2671½

Plan A (See preceding page) **Plan B**


0393 FLUSH BOLT
X2670 DOUBLE TRUCK HANGERS
X2641 TRACK
24″ O.C.-BRACKETS-12 O.C.
HALF DOOR = HALF FULL DOOR WIDTH LESS DIST. HINGE PIN ℄ TO ℄ DOOR
LOCK (BY OTHERS)
1273 FLUSH PULLS
BUTT HINGES (AS SPECIFIED)
0393 FLUSH BOLTS
ELEVATION







Hangers are equipped with a ball bearing on the swivel and roller bearings in the wheels and provided with vertical adjustment.

One pair in a box with 2″ x No. 14 wood screws; six pairs in a carton.
Weights: X2670, 23 lbs.; X2670½, 18 lbs.; X2671, 25 lbs.; X2671½, 24 lbs.

Furnished in Japanned finish, trolley Cadmium Plated

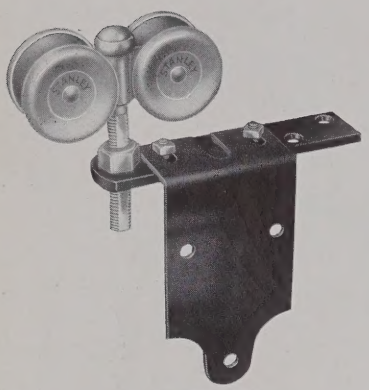
Specify Class Number

Rolling Door "Round-the-Corner" Hangers

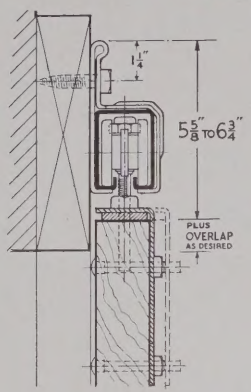
For use with Trolley Track X2641 (16-gauge)

For doors not over 2″ in thickness, 3′ in width, or **150** *pounds in weight*

Wrought Steel



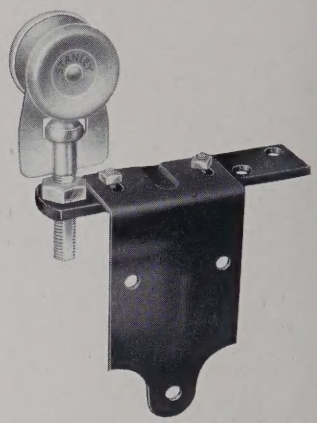
X2605



Sectional View X2605

Ball Bearing Swivel Roller Bearing Wheels

Diameter of Wheels, 2⅛″
Aprons, 5½″ x 3¼″ x 12-ga.



X2605½

For rolling doors, with openings of any width; doors should be of equal width. Headroom required above top of doors: X2605, 6¼″; X2605½, 7¼″. For complete set of hardware and door arrangement, see set SX2605 (page 219).

Equipped with a ball bearing on the swivel and roller bearings in the wheels. Made with both vertical and lateral adjustment, which can be set in any position.

One pair in a box with 5/16″ x 2½″ carriage and stove bolts. Weight per pair: X2605, 5 lbs.; X2605½, 4¼ lbs.

Furnished in Japanned finish, trolley Cadmium Plated

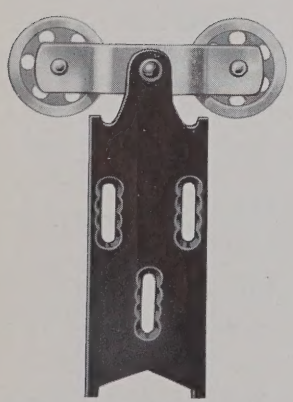
Specify Class Number

Straight Sliding Door Hangers

For use with Trolley Track X2641 (16-gauge)

For Light Parallel Sliding Doors

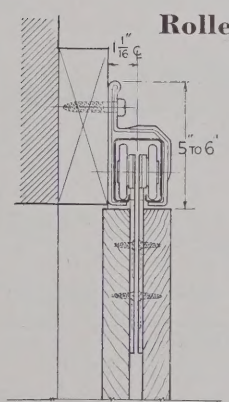
Wrought Steel



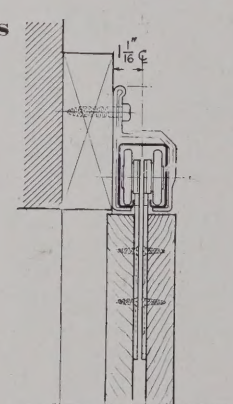
X2645

Diameter of Wheels, 2⅛″
Apron, 6″ x 2½″ x 7-gauge

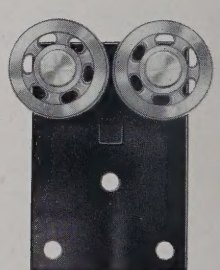
Roller Bearing Wheels



Sectional View



Sectional View



X2646

Diameter of Wheels, 2⅛″
Apron, 5″ x 3½″ x 11-gauge

Inexpensive hangers for light parallel sliding doors, used on one run of trolley track X2641. They are simple in design, trouble-proof and easy to apply. The cast iron wheels are equipped with roller bearings.

X2645. Vertical adjustment is provided by slotted bolt holes in the apron.

One pair in a box with ⅞″ x No. 14 wood screws. Weight per pair: X2645, 3 lbs.; X2646, 2½ lbs.

Apron furnished in Japanned finish

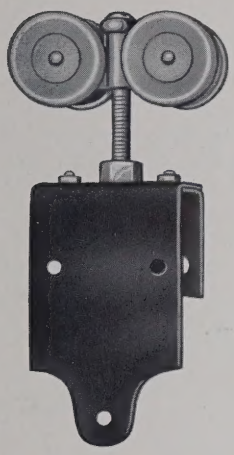
Specify Class Number

Straight Sliding Door Hangers

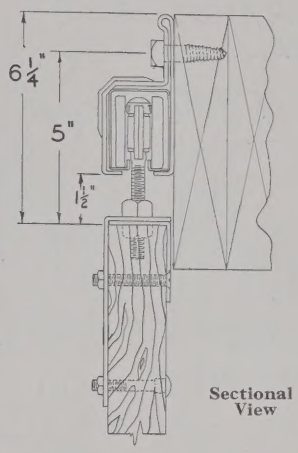
For use with Trolley Track X2641 (16-gauge)

For doors up to 350 pounds in weight

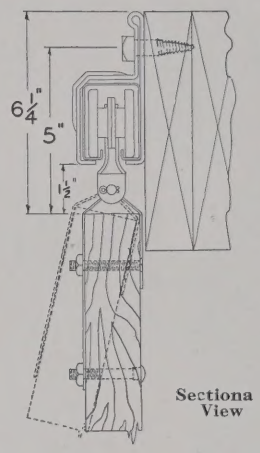
Ball Bearing Swivel Roller Bearing Wheels With Vertical and Lateral Adjustment — **Wrought Steel** — **Roller Bearing Wheels Without Adjustment**



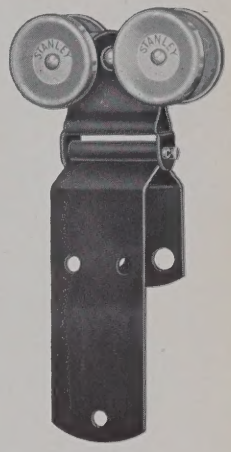
X2650



Hanger X2650, Bracket X2650-C and Trolley Track X2641



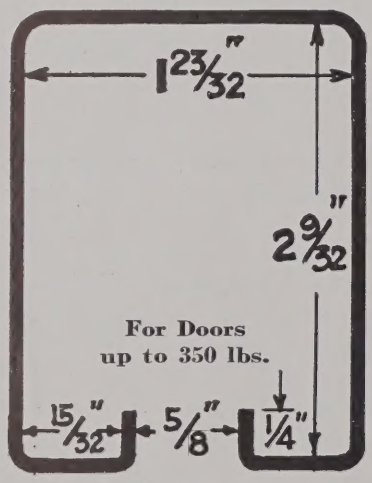
Hanger X2650½, Bracket X2650-C and Trolley Track X2641



X2650½

For doors 1⅝" to 2¼" in thickness

Diameter of Wheels, 2⅛"
Long Apron, 5½" x 3¼" x 12-gauge
Short Apron, 2⅜" x 3¼" x 12-gauge



Full Size Cross Section

Trolley Track X2641 (16-gauge)

For doors 1¾" to 2" in thickness

Diameter of Wheels, 2⅛"
Long Apron, 5½" x 2¼" x 14-gauge
Short Apron, 2⅜" x 2¼" x 14-gauge

For single or parallel sliding doors. Aprons provide bearing surface on both sides of door.

X2650. Equipped with a ball bearing on the swivel and roller bearings in the wheels. Made with both vertical and lateral adjustment, which can be set in any position.

X2650½. Made with a one-piece saddle for the double truck, insuring added strength. Aprons are hinged, allowing a swing-out feature.

One pair in a box with stove and carriage bolts; 5/16" x 2¾" for X2650, weight, per pair, 5 lbs.; 5/16" x 2½" for X2650½, weight, per pair, 4¼ lbs.

Furnished in Japanned finish, trolley Cadmium Plated

Specify Class Number

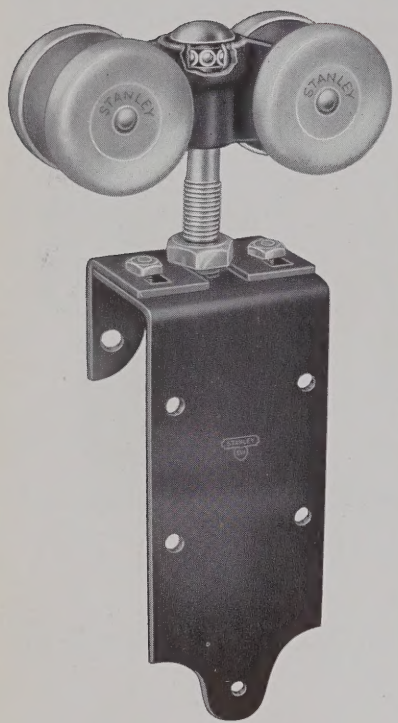
Heavy Straight Sliding Door Hangers

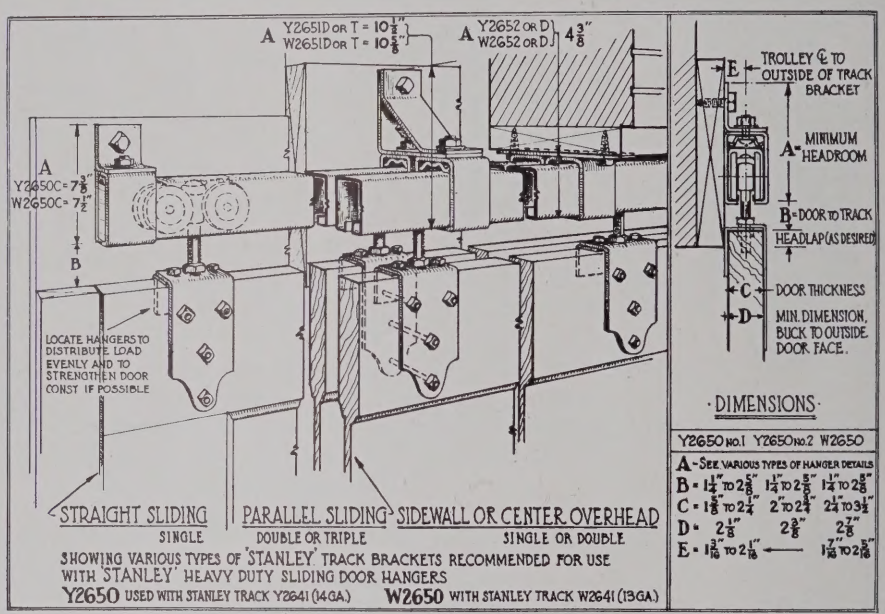
For use with Trolley Track

For doors up to 1000 pounds in weight

Wrought Steel

Ball Bearing Swivel Roller Bearing Wheels




A Y2651D OR T = 10 1/2"
W2651D OR T = 10 5/8"
A Y2652 OR D
W2652 OR DJ 4 3/8"
A Y2650C = 7 3/8"
W2650C = 7 1/2"
B
LOCATE HANGERS TO DISTRIBUTE LOAD EVENLY AND TO STRENGTHEN DOOR CONST IF POSSIBLE
STRAIGHT SLIDING
SINGLE
PARALLEL SLIDING
DOUBLE OR TRIPLE
SIDEWALL OR CENTER OVERHEAD
SINGLE OR DOUBLE
SHOWING VARIOUS TYPES OF 'STANLEY' TRACK BRACKETS RECOMMENDED FOR USE WITH 'STANLEY' HEAVY DUTY SLIDING DOOR HANGERS
Y2650 USED WITH STANLEY TRACK Y2641 (14GA.)
W2650 WITH STANLEY TRACK W2641 (13GA.)
E TROLLEY ℄ TO OUTSIDE OF TRACK BRACKET
A- MINIMUM HEADROOM
B- DOOR TO TRACK HEADLAP (AS DESIRED)
C DOOR THICKNESS
D MIN. DIMENSION, BUCK TO OUTSIDE DOOR FACE.
DIMENSIONS
Y2650 No.1 Y2650 No.2 W2650
A- SEE VARIOUS TYPES OF HANGER DETAILS
B = 1 1/2" TO 2 3/8" 1 1/2" TO 2 5/8" 1 1/2" TO 2 5/8"
C = 1 5/8" TO 2 1/4" 2" TO 2 1/4" 2 1/4" TO 3 1/2"
D = 2 1/8" 2 3/8" 2 7/8"
E = 1 3/16" TO 2 1/16" 1 7/16" TO 2 5/16"

For doors up to 700 pounds in weight using Trolley Track Y2641 (14-gauge)

Y2650 No. 1 For doors 1⅝″ to 2¼″ in thickness
Y2650 No. 2 For doors 2″ to 2¾″ in thickness

Diameter of Wheels, 3″
Long Apron, 7 11/16″ x 4″ x 10-gauge
Short Apron, 2 15/16″ x 4″ x 10-gauge

For doors up to 1000 pounds in weight using Trolley Track W2641 (13-gauge)

W2650 For doors 2¼″ to 3½″ in thickness

Diameter of Wheels, 3″
Long Apron, 9½″ x 4″ x 7-gauge
Short Apron, 2¾″ x 4″ x 7-gauge

For single or parallel sliding doors of warehouses, industrial buildings, public garages, etc.

Equipped with a ball bearing on the swivel and roller bearings in the wheels. The saddle is made of heavy malleable iron. The double truck trolley for W2650 hanger is made extra heavy. Aprons provide bearing service on each side of the door.

Made with both vertical and lateral adjustment, which can be set in any position.

One pair in a box with stove and carriage bolts. Weights: Y2650 No. 1 and No. 2, 13 lbs.; W2650, 18 lbs.

Furnished in Japanned finish, trolley Cadmium Plated

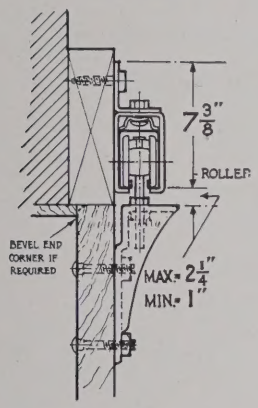
Specify Class Number and Thickness of Door

Heavy Folding Sliding Door Hangers

For use with Trolley Track

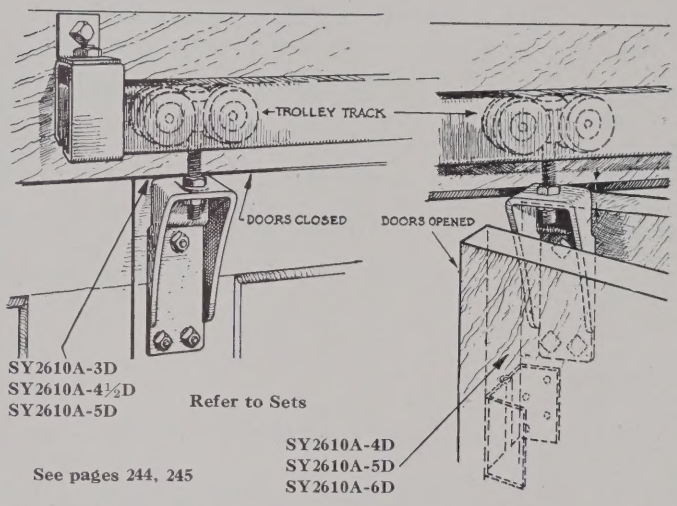
Ball Bearing Swivel **Roller Bearing Wheels**

Track securely held in place with the "Hold-Fast" Clamp featured on page 250



Sectional View

Minimum height required with W2641 Track (13-gauge) (⅛" less for 14-gauge Track)



SY2610A-3D
SY2610A-4½D
SY2610A-5D

Refer to Sets

See pages 244, 245

SY2610A-4D
SY2610A-5D
SY2610A-6D

Diameter of Wheels, 3"
Bracket, 9" x 3½" x ⅜"

Y2610 For doors weighing not more than 250 pounds per door, using Trolley Track Y2641 (14-gauge)

W2610 For doors weighing not more than 350 pounds per door, using Trolley Track W2641 (13-gauge)

For folding sliding doors of warehouses, industrial buildings, public garages, etc.

Equipped with a ball bearing on the swivel and roller bearings in the wheels. Made with both vertical and lateral adjustment, which can be set in any position. The hanger bracket and saddle are made of extra heavy malleable iron. The double truck trolley for hanger W2610 is extra heavy.

One in a box with carriage bolts. Weights: Y2610, 9½ lbs.; W2610, 10½ lbs.

Furnished in Japanned finish, trolley Cadmium Plated

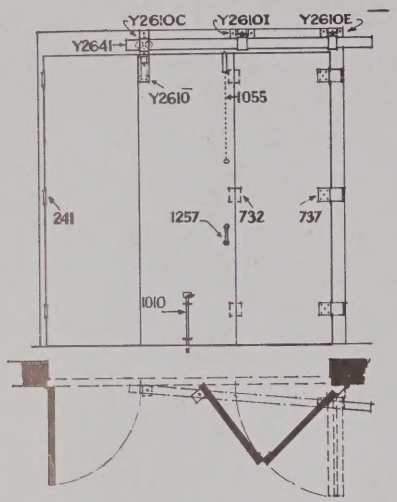
Specify Class Number and Thickness of Door

Heavy Folding Sliding Garage Door Hardware

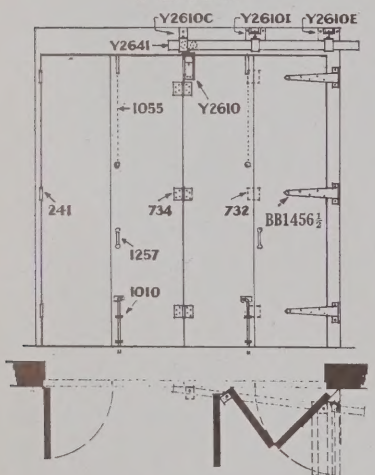
Complete Sets for Doors Opening In or Out

For doors 1¾″ in thickness, 125 to 175 pounds each, using Trolley Track Y2641 (14-gauge)

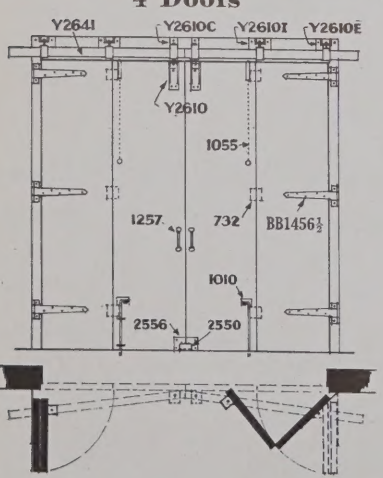
3 Doors



4 Doors



4 Doors



Wrought Steel

Set SY2610A-3D (Openings to 9′ wide)

Consists of: one only Y2610 Hanger; one each Y2610-C, Y2610-I and Y2610-E Brackets; one 7′ piece Y2641 Track; one only 1055J 6″ Chain Bolt; one only 1010K 18″ Cane Bolt; one only 1257J No. 3 Pull; one and one-half pairs each 737J, 241J 4″ x 4″ and 732J 4″ x 4″ Hinges.

For doors opening out specify 734J 4″ x 4″ offset hinges in place of 732J 4″ x 4″ full surface hinges.

For doors 2″ thick, 241J 5″ x 5″ are required for service door.

One set in a case. Track bundled separately.

Weight per complete set, 65 lbs.

Set SY2610A-4D (Openings to 12′ wide)

Consists of: one only Y2610 Hanger; one each Y2610-C, Y2610-I and Y2610-E Brackets; one 7′ piece Y2641 Track; two only 1055J 6″ Chain Bolts; two only 1010K 18″ Cane Bolts; two only 1257J No. 3 Pulls; one and one-half pairs each BB1456½J 18″, 241J 4″ x 4″, 732J 4″ x 4″ and 734J 4″ x 4″ Hinges.

For doors 2″ thick, 241J 5″ x 5″ are required for service door.

One set in a case. Track bundled separately.

Weight per complete set, 80 lbs.

Set SY2610A-4½D (Openings to 12′ wide)

Consists of: two only Y2610 Hangers; two each Y2610-C, Y2610-I and Y2610-E Brackets; two 7′ pieces Y2641 Track; two only 1055J 6″ Chain Bolts; two only 1010K 18″ Cane Bolts; two only 1257J No. 3 Pulls; three pairs each BB1456½J 18″ and 732J 4″ x 4″ Hinges; two pairs 2556J Bumper Shoes; one only 2550J Floor Guide.

For doors opening out specify 734J 4″ x 4″ offset hinges in place of 732J 4″ x 4″ full surface hinges.

One set in a case. Track bundled separately.

Weight per complete set, 135 lbs.

Specify Class Number, also (Thickness of Doors if not 1¾″)

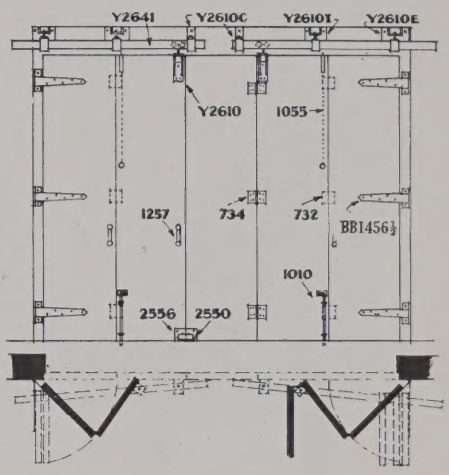
Heavy Folding Sliding Garage Door Hardware

Complete Sets for Doors Opening In or Out

For doors 1¾″ in thickness, 125 to 175 pounds each, using Trolley Track Y2641 (14-gauge)

Wrought Steel

5 Doors



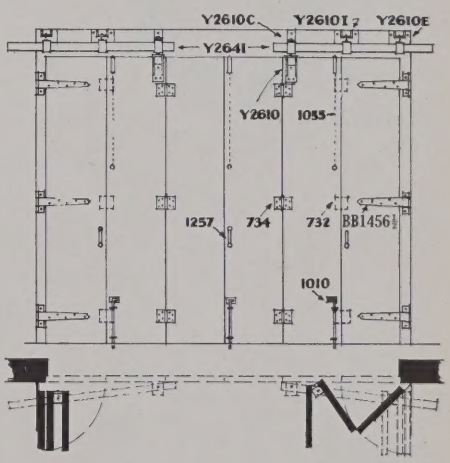
Set SY2610A-5D (Openings to 15′ wide)

Consists of: two only Y2610 Hangers; two each Y2610-C, Y2610-I and Y2610-E Brackets; two 7′ pieces Y2641 Track; two only 1055J 6″ Chain Bolts; two only 1010K 18″ Cane Bolts; three only 1257J No. 3 Pulls; three pairs each BB1456½J 24″ and 732J 4″ x 4″ Hinges; one and one-half pairs 734J 4″ x 4″ Hinges; two pairs 2556J Bumper Shoes; one only 2550J Floor Guide.

One set in a case. Track bundled separately.

Weight per complete set, 140 lbs.

6 Doors



Set SY2610A-6D (Openings to 16′ wide)

Consists of: two only Y2610 Hangers; two each Y2610-C, Y2610-I and Y2610-E Brackets; two 8′ pieces Y2641 Track; three only 1055J 6″ Chain Bolts; three only 1010K 18″ Cane Bolts; three only 1257J No. 3 Pulls; three pairs each BB1456½J 24″, 732J 4″ x 4″ and 734J 4″ x 4″ Hinges.

One set in a case. Track bundled separately.

Weight per complete set, 150 lbs.

Ball Bearing Hinge

BB1456½J 24″

Where sideroom permits, hinges can be set back to allow all doors to stand clear of opening.

Other items described elsewhere in the catalog.

Note

For doors over 175 lbs. per door, similar sets are available with 13-gauge track, hangers, brackets and other items proportionately heavier.

All sets based on doors not over 10′ high. For higher doors, one additional hinge per door is required for each 2½ feet or fraction thereof in height.

Specify Class Number, also (Thickness of Doors if not 1¾″)

Trolley Trucks

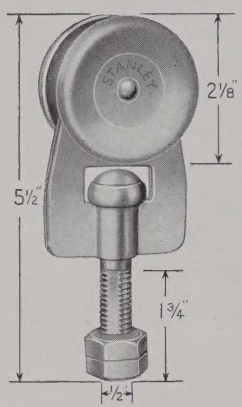
For use with Trolley Track X2641 (16-gauge)

Wrought Steel

Roller Bearing Wheels

Ball Bearing Swivel

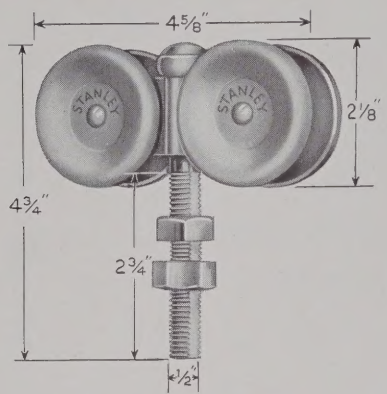
Single



XT2600½

One pair in a box.
Weight, 1¾ lbs.

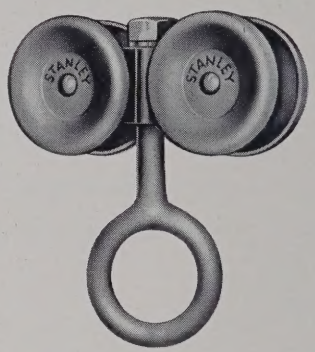
Double



XT2600

One pair in a box.
Weight, 2½ lbs.

Double
With Eye Bolt
Plain Bearing Swivel

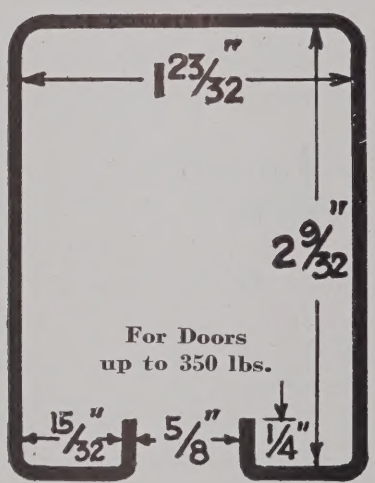


X2655

For use on overhead carrier.

Diameter of Wheels, 2⅛"
Length of Eye Bolt, 4¾"
Inside Diameter of Eye, 1"

One in a box. Weight, 1½ lbs.



Full Size Cross Section

Trolley Track X2641 (16-gauge)

Equipped with a ball bearing (except X2655) on the swivel and roller bearings in the wheels.
Made with vertical adjustment (except X2655) which can be set at any position.

Furnished Cadmium Plated

Specify Class Number

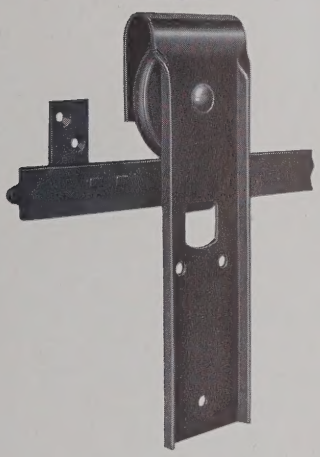
Straight Sliding Door Hangers

For use with Flat Track 2540

For doors not over 1¾″ in thickness or 250 pounds in weight

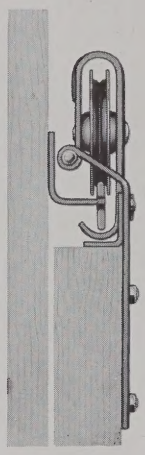
Wrought Steel
Roller Bearing Wheels

Rigid



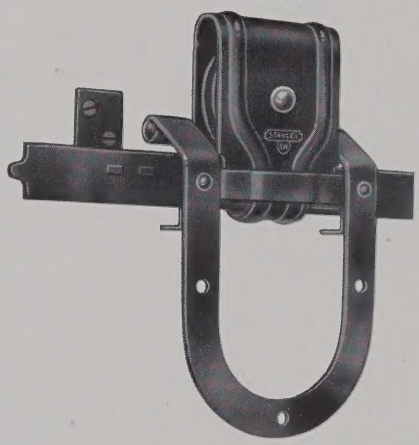
2528

Overall Length, 10⅝″
Diameter of Wheel, 3½″
Apron, 5½″ (from lip) x 3″ x 11-gauge



End View
2529

Flexible



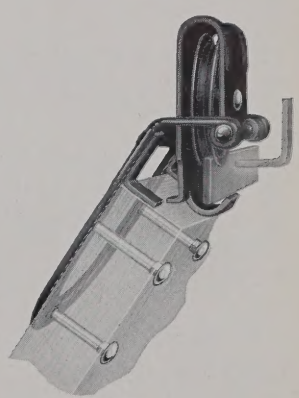
2529

Overall Length, 10⅜″
Diameter of Wheel, 3½″
Apron, 7½″ x 5¾″ x 7-gauge

Roller bearings reduce friction, insuring easy operation of the doors. The hanger is locked to the rail so that it cannot jump the track. Made with a lug which accurately locates position on door.

Easily installed, as hangers are attached to only one side of the door. Only three bolts are necessary to mount hanger.

2529 is both flexible and rigid. When the door is hanging in its parallel position, the hanger is perfectly rigid, there being no vibration. However, should anything bump against the door, the flexible feature comes into play and allows the door to swing out.



2529
Showing flexible feature

One pair in a box with 2¼″ x 5/16″ bolts. Weights: 2528, 5¾ lbs.; 2529, 7½ lbs.

Furnished in Japanned finish, axle Cadmium Plated

Specify Class Number

Rolling and Folding Sliding Garage Door Hangers

For use with Flat Track 2540

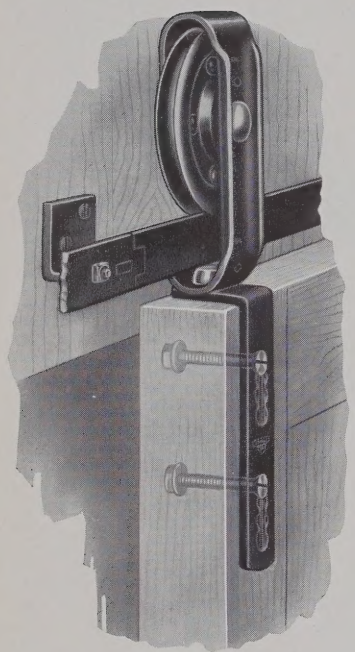
For Doors 1⅜″ to 2¼″ in thickness, up to 125 pounds in weight

Wrought Steel

Roller Bearing Wheels

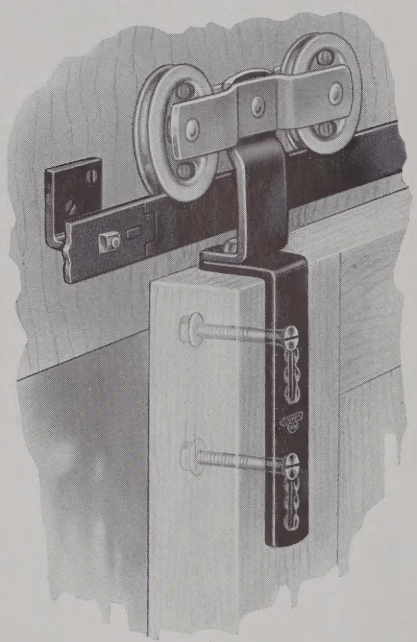
For Rolling Doors | **For Folding Sliding Doors**

Cast Iron Wheels
Japanned Finish



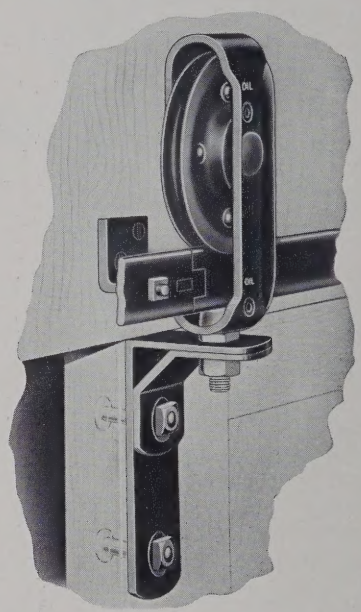
2525

Diameter of Wheel, 3 9/16″
Apron, 6″ x 1½″ x 6-gauge



2530

Diameter of Wheels, 2½″
Apron, 6″ x 1½″ x 6-gauge



2526

Diameter of Wheel, 3 9/16″
Bracket, 5⅛″ x 2⅜″ x 1¾″ x 11-ga.

Roller bearings in the wheels reduce friction, insuring easy operation of doors. The hanger is locked to the rail so that it cannot jump the track. Headroom required above top of doors; 2525, 2526, 6″; 2530, 5.″

2525, 2530. Swivel type; vertical adjustment is provided by slotted bolt holes in the apron.

2526. Swivel type; provided with vertical adjustment. The offset bracket permits the doors to close tightly into the rabbet.

One pair in a box; 2525, 2530 with 2¾″ x ¼″ bolts; 2526 with 2½″ x 5/16″ bolts. Weights: 2525, 4 lbs.; 2526, 4¼ lbs.; 2530, 5 lbs.

Furnished in Japanned finish, axle Cadmium Plated

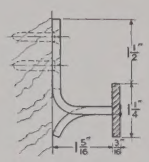
Specify Class Number

Flat and Trolley Tracks

"Straight as a Die"

Flat Track

2540

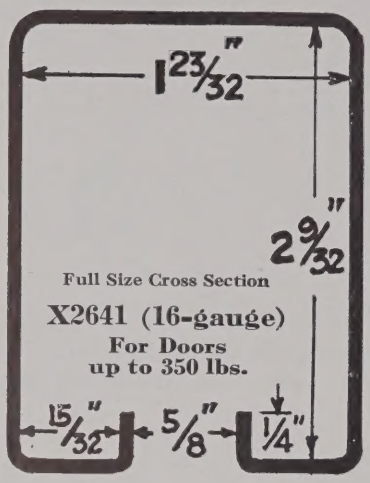


Showing braced rail

Lengths 4′, 5′9″, 6′, 8′ and 10′, without screws. Track measures 1¼″ x 3/16″ and is free of humps. Bracing feature insures rigid, perfectly aligned track surface.

Obtainable in 13″ sections with ends designed for interlocking, but without bracing feature. Furnished with screws and bolts.

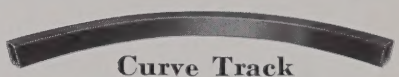
Wrought Steel



X2643 Same as X2641 except with holes for "Under-Soffit" sets.

Trolley Track

X2641 16-gauge
Y2641 14-gauge
W2641 13-gauge

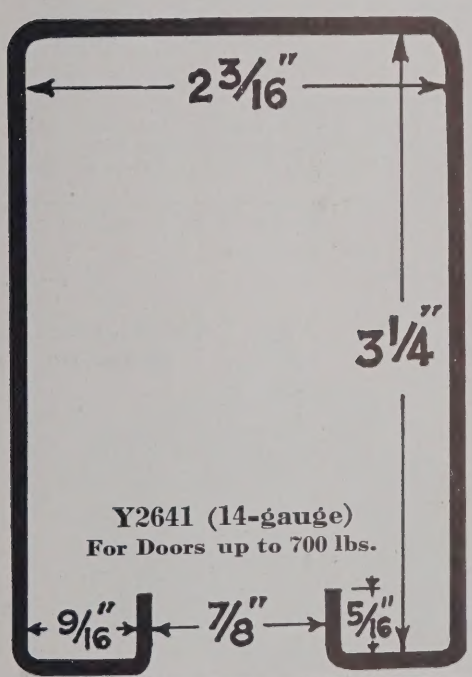


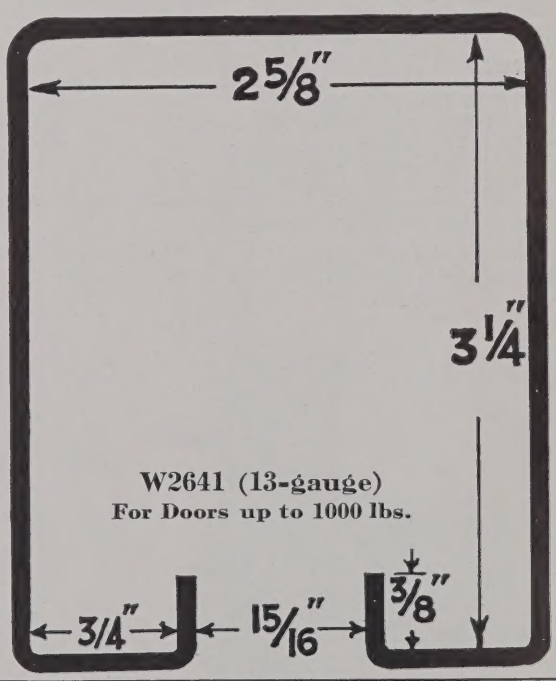
Curve Track

X2641-CT 16-gauge
Y2641-CT 14-gauge
W2641-CT 13-gauge

Furnished in one piece. 24″ and 36″ radius in 90° curve.

Special curves on order.





Length (Feet)				Pieces in a Bundle				Average Net Weight Per Bundle (Lbs.)			
2540	X2641	Y2641	W2641	2540	X2641	Y2641	W2641	2540	X2641	Y2641	W2641
4	4	4	...	8	8	4	..	34	55	50	..
*5′ 9″	...	...	...	..	..	..	..	..	..	..	..
6	6	6	6	8	4	2	2	50	42	37	49
8	8	8	8	8	4	2	2	64	56	50	61
...	9	...	...	..	4	..	..	..	64	..	..
10	10	10	10	8	4	2	2	80	67	62	74
...	12	...	...	...	2	...	...	...	40	...	...

2540 (13″ sections), 24 in a box, with bolts, nuts and screws. Net weight, 27 lbs.

*Weight, 6 lbs. per piece. Packed as ordered.

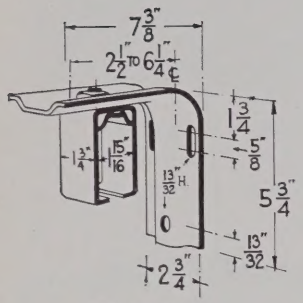
Furnished in Japanned finish

Specify Class Number and Length

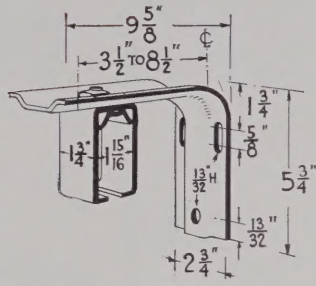
Track Brackets

For Trolley Track X2641 (16-gauge)

Wrought Steel

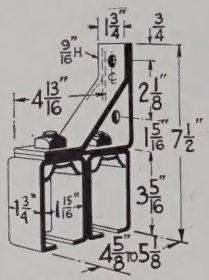


X2610-I

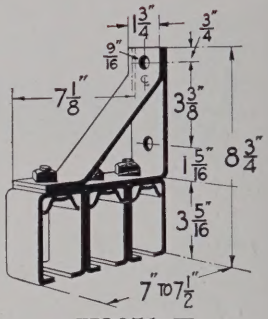


X2610-E

X2651



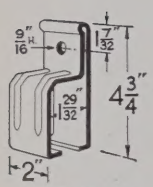
X2651-D



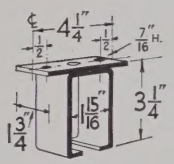
X2651-T

"Hold-Fast" Clamp is furnished with the above brackets.

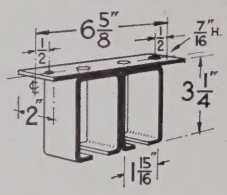
Furnished on order with brackets X2652 and X2652-D.



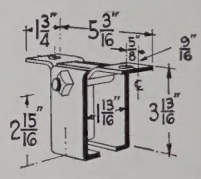
X2650-C



X2652



X2652-D



X2652½

Number	Type	Weight, Each (Lbs.)
X2610-E	End Adjustable	3⅛
X2610-I	Intermediate Adjustable	2⅞
* **X2650-C**	Center Side	¾
* **X2651-D**	Center Side, Double	3½
* **X2651-T**	Center Side, Triple	5⅛

Number	Type	Weight, Each (Lbs.)
X2651	Center Overhead	1
*† **X2652**	Center Overhead, Parallel or Cross Ear	1¼
* **X2652-D**	Center Overhead, Double, Cross Ear	2¼
* **X2652½**	Center Overhead, Split, Parallel Ear	1¼

Packed bulk without screws.

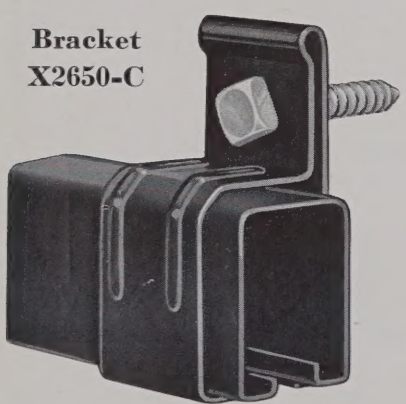
Furnished in Japanned finish.

* Same brackets used on ends of track with end caps X2641-EC.

† When desired, attaching plate can be turned lengthwise; put in a vise and turn into position.

Specify Class Number

Bracket X2650-C

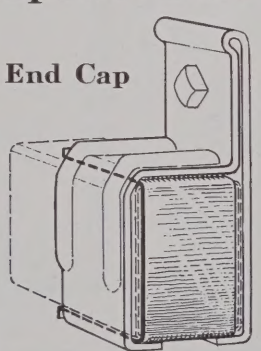


In tightening the lag screw, the sides of the bracket are drawn tightly around the track, holding it rigidly in place. A flat, straight surface is thus assured for the hanger, which rolls smoothly along the track without hitching or binding.

Recommended spacing, 2′ on centers.

Special Features

End Cap

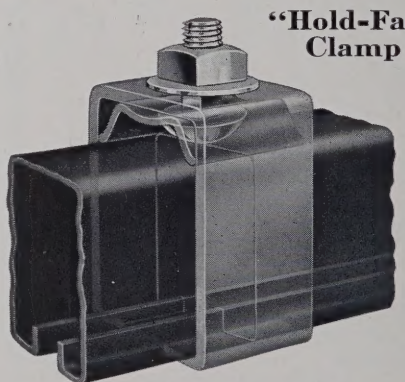


(Installed)

X2641-EC
Y2641-EC
W2641-EC

Fits into the brackets at end of track, thereby making the track bird-proof. Furnished on order.

"Hold-Fast" Clamp



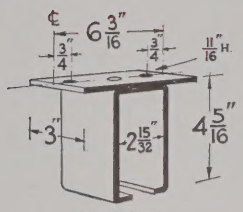
The "Hold-Fast" Clamp consists of a clamping plate with bolt and nut, which fits into the track bracket. Tightening of the nut causes ends of clamping plate to press down on the track insuring a rigid, perfectly aligned surface for the trolley wheels. Any number of sections can be joined together into one continuous piece of non-rattling track, allowing the wheels to roll smoothly and noiselessly. The joints are virtually locked together.

Obtainable with all brackets except X2650-C and X2652½.

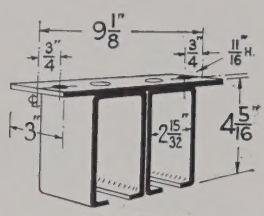
Heavy Track Brackets

For Trolley Track Y2641 (14-gauge)

Wrought Steel



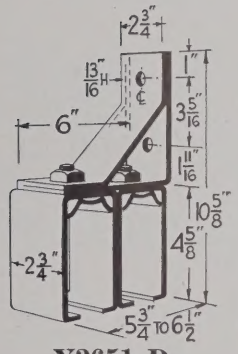
Y2652



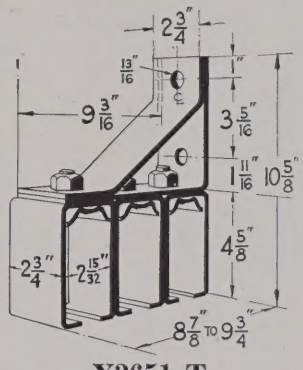
Y2652-D

"Hold-Fast" Clamp is furnished with brackets shown below.

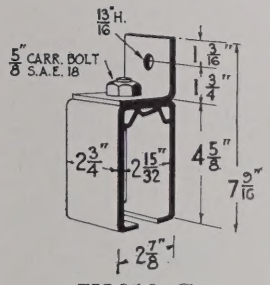
Furnished on order with brackets Y2652 and Y2652-D.



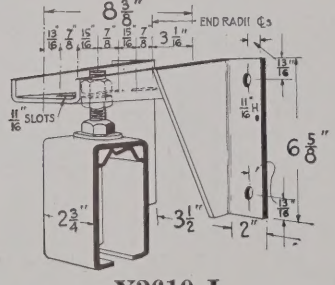
Y2651-D



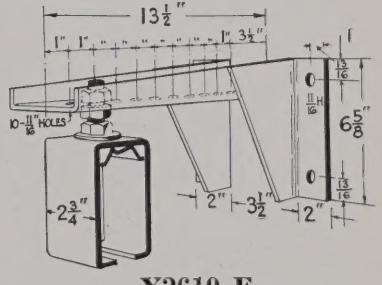
Y2651-T



Y2610-C



Y2610-I



Y2610-E

Number	Type	Weight, Each (Lbs.)
*Y2610-C	Center Side	1½
Y2610-E	End Adjustable	4½
Y2610-I	Intermediate Adjustable	3½
*Y2651-D	Center Side, Double	4
*Y2651-T	Center Side, Triple	7½
†*Y2652	Center Overhead, Parallel or Cross Ear	2
*Y2652-D	Center Overhead, Double, Cross Ear	4

Packed bulk without screws.

Furnished in Japanned finish.

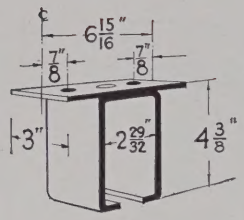
* Same brackets used on ends of track with end caps Y2641-EC.
† When desired, attaching plate can be turned lengthwise; put in a vise and turn into position.

Specify Class Number

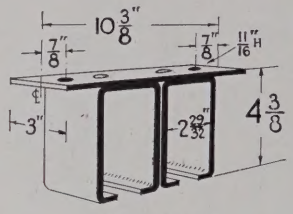
Extra Heavy Track Brackets

For Trolley Track W2641 (13-gauge)

Wrought Steel



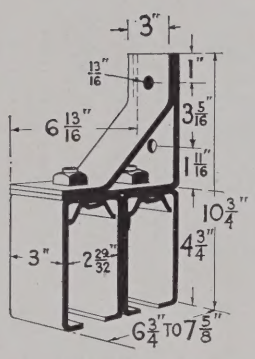
W2652



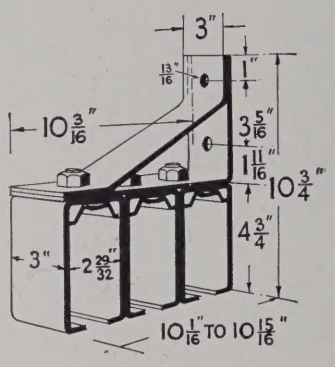
W2652-D

"Hold-Fast" Clamp is furnished with brackets shown below.

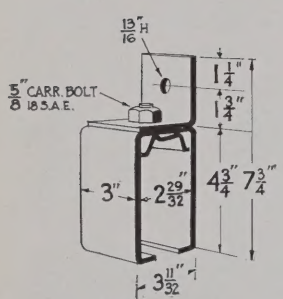
Furnished on order with brackets W2652 and W2652-D.



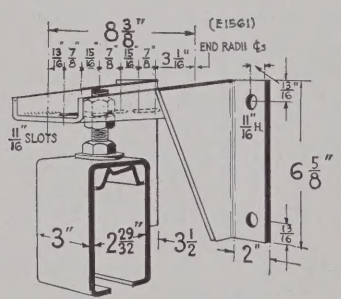
W2651-D



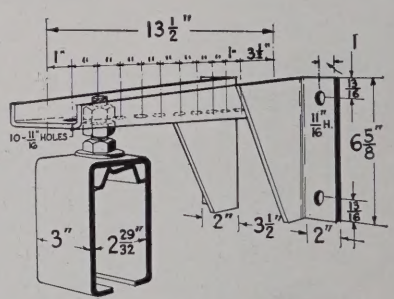
W2651-T



W2610-C



W2610-I



W2610-E

Number	Type	Weight, Each (Lbs.)
*W2610-C	Center Side	2½
W2610-E	End Adjustable	9½
W2610-I	Intermediate Adjustable	7½
*W2651-D	Center Side, Double	8½
*W2651-T	Center Side, Triple	11
†*W2652	Center Overhead, Parallel or Cross Ear	3½
*W2652-D	Center Overhead, Double, Cross Ear	7½

Packed bulk without screws.

Furnished in Japanned finish.

* Same brackets used on ends of track with end caps W2641-EC.
† When desired, attaching plate can be turned lengthwise; put in a vise and turn into position.

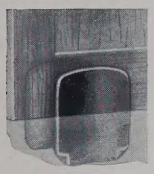
Specify Class Number

Sliding Garage Door Hardware

Wrought Steel

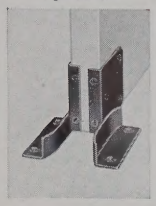
Floor Door Guides and Bumper Shoes

Single



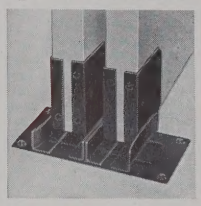
2549

Single Adjustable



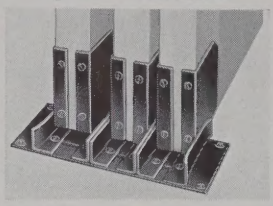
Guide 2550
Bumper Shoes 2556

Double Adjustable for doors up to 3″ in thickness



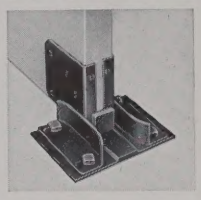
Guide 2551 No. 2
Bumper Shoes 2556

Triple Adjustable for doors up to 3″ in thickness



Guide 2551 No. 3
Bumper Shoes 2556

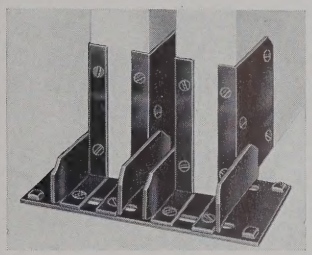
Center Guide and Stop Adjustable for doors up to 2½″ in thickness



Guide and Stop 2552
Bumper Shoes 2556

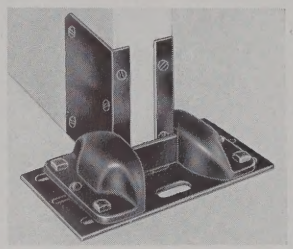
For Heavy Doors—Adjustable for Doors 1⅝″ to 3½″ in Thickness

Double



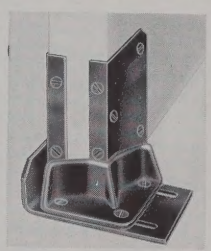
Guide YW2551
Bumper Shoes 2556

Center Guide and Stop



Guide and Stop YW2552
Bumper Shoes 2556

End Guide and Stop

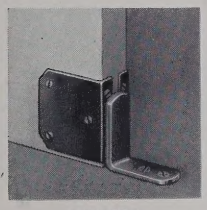


Guide and Stop YW2552½
Bumper Shoes 2556

Number	Size (Inches)	Quantity and Size of Screws	Average Net Weight Per Each (Lbs.)	Average Net Weight Per Pair (Lbs.)
2549	3 13/16 x 3¼	. . . . .	. . .	1¼
2550	4½ x 1½ x 1⅛	4–⅜ x 2	. . .	1⅜
2551 No. 2	8 ⅜ x 4½	4–⅜ x 2	3½	. . .
2551 No. 3	10 ¾ x 4½	4–⅜ x 2	4	. . .
YW2551	9 ⅝ x 4½	4–⅜ x 2	4½	. . .
2552	6 ¼ x 4½	4–⅜ x 2	3	. . .
YW2552	9 x 5	4–⅜ x 2½	6½	. . .
YW2552½	5½ x 3⅝ x 1¾	2– 2 x 16	2¾	. . .
2556	3½ x 3½ x ⅝	10–¾ x 10	. . .	1¼

2549—one pair in a box; 2550—one pair in a box with lag screws and expansion shields; 2556—six pairs in a box with wood screws; all others one in a box with lag screws and expansion shields.

Door Stops



2546½

Stop and Binder
For doors up to 2⅝″ in thickness

2548

2557

Stay Rollers

2558

2559

Adjustable and Reversible
For doors up to 2¾″ in thickness

2559½

Number	Size (Inches)	Diameter of Wheel (Inches)	Size of Screws	Average Net Weight Each (Lbs.)
2546½	3¼ x 3 x 1¼	. . .	1½ x 14	½
2548	8⅝ x 3⅝ x 1¼	. . .	1¼ x 12	1
2557	6 x 2 x 2½	2¾	⅜ x 2	2½
2558	4¼ x 7/16	2	. . . . .	½
2559	5 x 7/16	2	. . . . .	½
2559½	4½ x 3½ x 1¼	2	1½ x 14	1

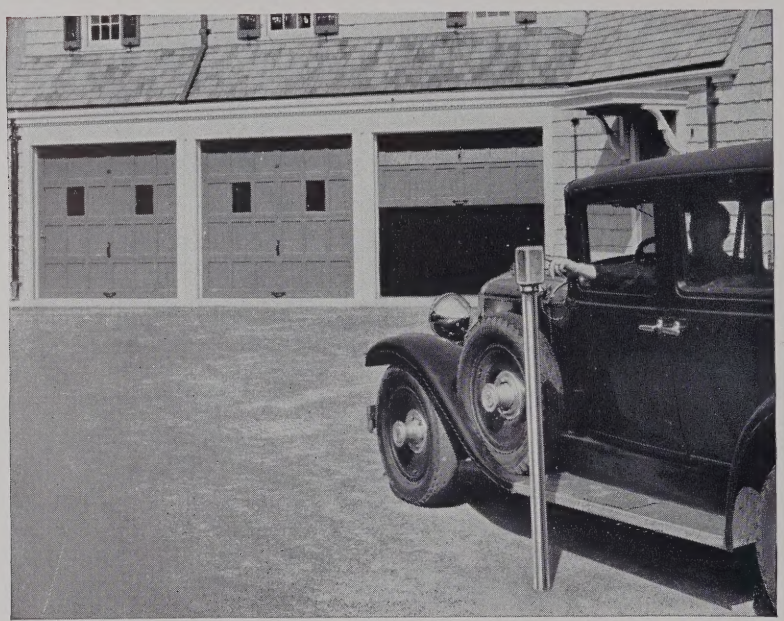
One-half dozen in a box; 2548, 2559½—with wood screws; 2546½—with wood screws and expansion shields; 2557—with lag screws and expansion shields.

Furnished in Japanned finish

Specify Class Number

Electric Operators

For "Roll-Up," "Swing-Up" and Hinged Door Garages



Stanley Electric Operators are built to meet different types of service. For ***residential*** use it is expected the door will be opened about one thousand times per year, while for ***commercial*** use it may be opened fifty thousand or more times per year. Operators for commercial use are built to stand many times as many cycles as the residential type. Some commercial installations, however, require the door to be opened but a few times per day and the speed of operation is not important. This type of service is designated as ***low frequency commercial.***

For Residential and Low Frequency Commercial Outward Swinging Double Doors up to 8′ x 8′

E4130 A1 for square top doors
E4130 C1 for curved top doors

(Not Illustrated)

Operator consists of a motor unit which attaches to the soffit, with arm connecting to the door.

Equipment includes a magnetic reversing switch, a motor protective switch, one inside push button station and one outside push button station with lock switch mounted in a 2″ condulet fitting.

For Residential "Roll-Up" and "Swing-Up" Doors not over 8′ High

E4131 D1 "Mighty Midget" for 2710 and 2711 doors up to 8′ x 8′
E4132 D1 "Mighty Midget" for 2730 and 2732 doors up to 8′ x 8′
E4132 F1 "Mighty Midget" for 2730 doors up to 16′ x 8′

(Illustrated on page 256)

The operator consists of an angle iron frame about 10′ long on which is mounted a motor unit and an endless chain. The whole unit is suspended over the open position of the door and a spring arm connects the endless chain with the door.

A solenoid operated toggle switch mounted in the operator feeds the motor until tripped as the door reaches the end of its cycle.

A momentary pressing of either control button causes door to completely open if closed and to close if open.

Equipment includes one inside push button and a motor protective switch mounted in a 4″ wall box, and one outside push button and a lock switch mounted in a 1½″ condulet fitting. Where two operators are to be controlled by the same outside station, the outside push button station furnished consists of two push buttons and a lock switch mounted in a 2″ condulet.

For Residential and Low Frequency Commercial "Roll-Up" and "Swing-Up" Doors up to 12′ x 12′

E4131 A1 for 2711 and 2715 doors
E4132 A1 for 2730 and 2734 doors

(Illustrated on page 257)

Operator regularly furnished with momentary contact control.

The operator consists of an angle iron frame about 4′ 8″ longer than the height of the door, on which is mounted a motor unit, a roller chain, and a cam operated reversing switch and limit switch. Connection between the chain and the door is by means of a detachable arm. The control for this operator consists of single button stations in which pressing the button opens door if closed and closes it if open. Each inside station also contains a stop switch but door cannot be reversed without completing its stroke.

Equipment furnished consists of the operator with necessary means for supporting it, one inside push button and protective switch in a box and one outdoor push button and lock switch in a 1½″ condulet fitting.

For Commercial "Roll-Up" Doors up to 12′ x 12′

E4131 G1 for 2715 doors

(Illustrated on page 257)

Operator consists of an angle iron frame 4′ 8″ longer than the height of the door, on which is mounted a motor unit containing a 1/3 H.P. reversible motor. Running the length of the frame is a roller chain. There is a double limit switch actuated by adjustable stops. Operators can be stopped and reversed at any point of travel by means of a magnetic reversing switch. Can be wired for either momentary contact or constant contact control as desired.

Equipment furnished includes the operator with means for supporting it, a magnetic motor reversing switch, a motor protective switch, and one only push button station containing three buttons, "Open," "Close" and "Stop." No outdoor push button is furnished, as usually none is required with this operator. Extra inside or outside push button stations furnished at extra cost.

Note—For "High-Lift" Doors up to 12′ x 12′ the above operator is satisfactory providing the lift required is not over 2′ above opening. If over 2′ lift, the E4131 B1 operator must be used.

For Heavy "Roll-Up" Doors Any Size

E4131 B1 Heavy Duty for 2712 doors

(Illustrated on page 257)

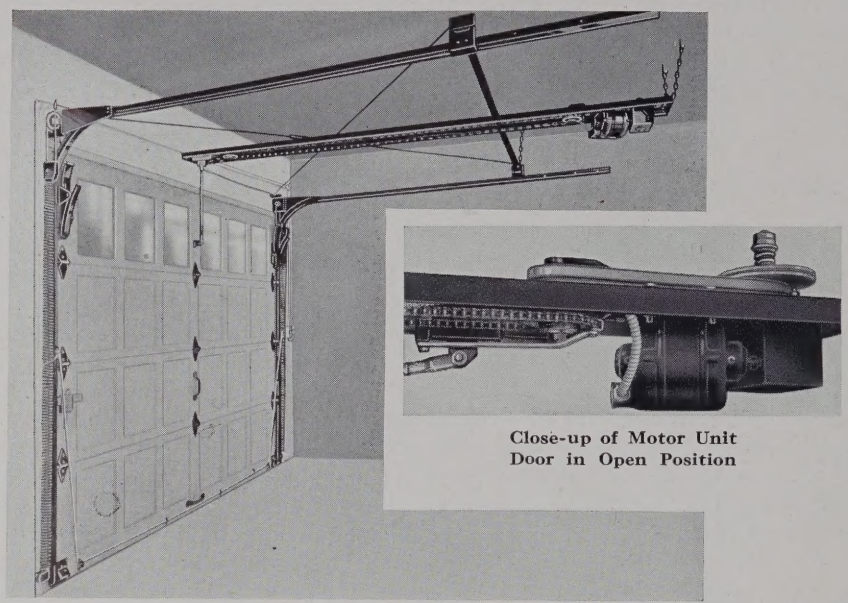
Operator is of the hoist type, i.e., it drives the shaft which raises the door directly, in place of using a horizontal drive chain with an arm attached to the door.

It consists of a motor unit using up to a ½ H.P. motor, an adjustable slip clutch and a V-belt drive to a totally enclosed ball bearing worm reduction unit. The driving sprocket has a detachable pin for disconnecting operator from the door shaft without removing the steel roller drive chain. There is an easily adjustable double limit switch actuated by the drive sprocket to stop the door at either end of its stroke. The unit can be placed in various locations depending on the space available. Controls same as G1 operator.

Equipment includes the motor unit with necessary brackets, a magnetic reversing switch, a motor protective switch and one only push button station containing three buttons, "Open," "Close" and "Stop." Additional push button stations obtainable on order.

"Mighty Midget" Electric Operator

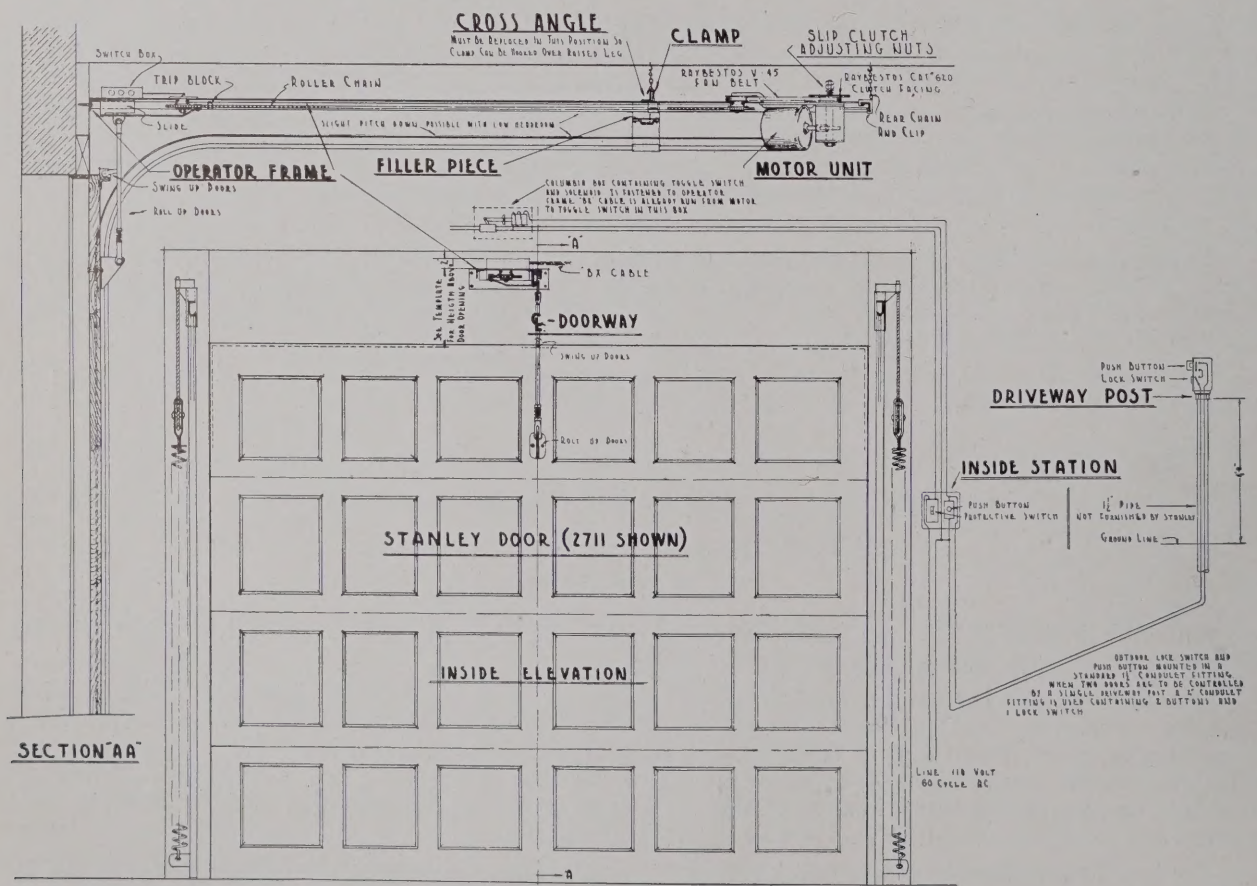
For Residential "Roll-Up" and "Swing-Up" Doors



Close-up of Motor Unit
Door in Open Position

Applied "Roll-Up" Door

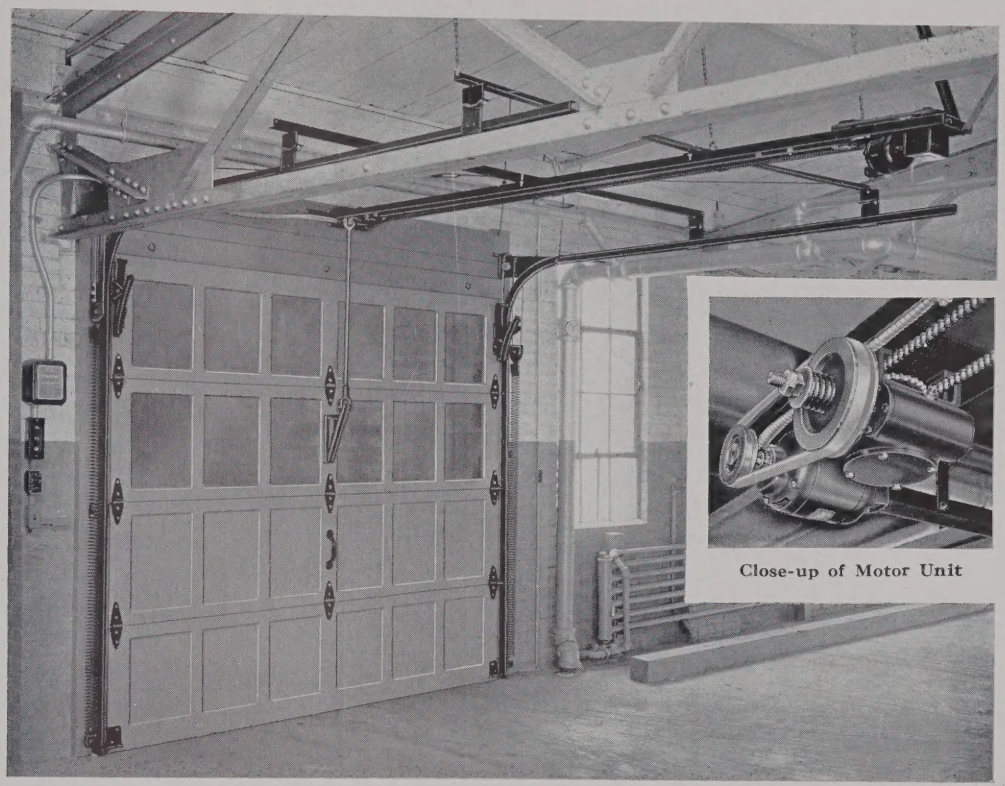
The door is operated by means of an arm attached to the door and chain. In the event of power failure, the arm can be easily detached, thereby allowing the door to be operated by hand.



For detailed description, see pages 254 and 258.

Electric Operators and Controls

For "Roll-Up" and "Swing-Up" Doors



Close-up of Motor Unit

E4131 G1 Applied on 2711 "Roll-Up" Door
(Type of E4131 A1 and E4132 A1)

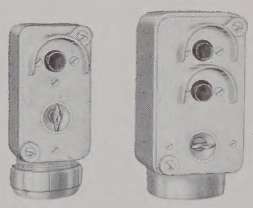
For detailed description of operators, see pages 255 and 258.

Controls

Magnetic Reversing Switch

Inside 3-Button Station

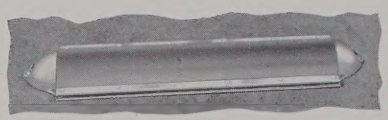
Motor Protective Switch



Outside Lock Switches

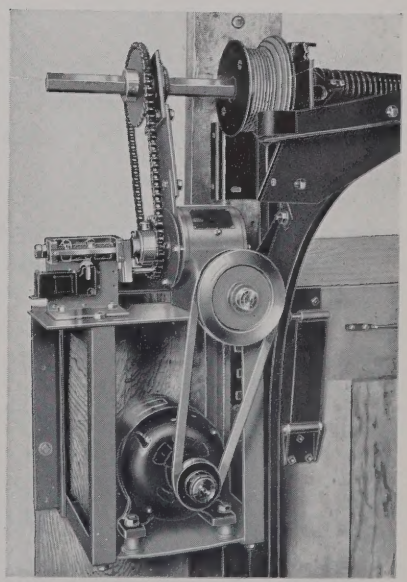
Inside Push Button and Protective Switch

Driveway Treadle for Residential Use and Furnished only with "Mighty Midget" Operators



Furnished on order, size 16¾" x 3¾"

Heavy-Duty Operator



E4131 B1
For 2712 "Roll-Up" Door

Electric Operators

Specifications and Materials Furnished

	E4130A1 E4130C1	E4131A1	E4131B1	E4131D1	E4131G1	E4132A1	E4132D1	E4132F1
Magnetic reversing switch furnished	Yes	No	Yes	No	Yes	No	No	No
Inside push button station furnished	One 2 Button	One Single Button	One 3 Button	One Single Button	One 3 Button	One Single Button	One Single Button	One Single Button
Outside push button station furnished	One 2 Button	One Single Button	None	One Single Button	None	One Single Button	One Single Button	One Single Button
Motor protective switch furnished	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Motor furnished	¼ H.P.	¼ H.P.	½ H.P.	1/6 H.P.	⅓ H.P.	¼ H.P.	1/6 H.P.	1/6 H.P.
Approximate speed of opening	5 sec.	10 sec.	12 sec.	20 sec.	10 sec.	10 sec.	20 sec.	20 sec.
Shipping weight (lbs.)	140	230	220	175	315	230	175	175
Minimum headroom required	None	17″	No more than required for 2712 hardware	13½″ for 2711 doors 12½″ for 2710 doors	17″	6″	7½″	7½″
Minimum depth required	None	Door height plus 4′ 8″	None	Door height plus 3′	Door height plus 4′8″	Door height plus 4′	Door height plus 3′	Door height plus 3′
Minimum sideroom required (one side only)	None	None	20″	None	None	None	None	None

Magnetic brakes furnished on order with Operators E4131 B1 and E4131 G1.

Guarantee

Stanley Electric Operators are carefully inspected and tested before shipping. We guarantee they will satisfactorily perform the service for which designed.

The Stanley Works will replace without charge any part which has been found to be defective (within one year of date of shipment), provided the part is returned prepaid to our factory in New Britain, Conn., for inspection, and we are satisfied that no unreasonable abuse has been given the equipment. We cannot assume liability for any labor or material expense incurred by the customer in attempting repairs, replacing parts or making special braces, bolts, etc., which are not furnished with the operator, but which may be necessary in erection of the operator due to peculiarities of the building. Credit for such expense can only be allowed with our permission.

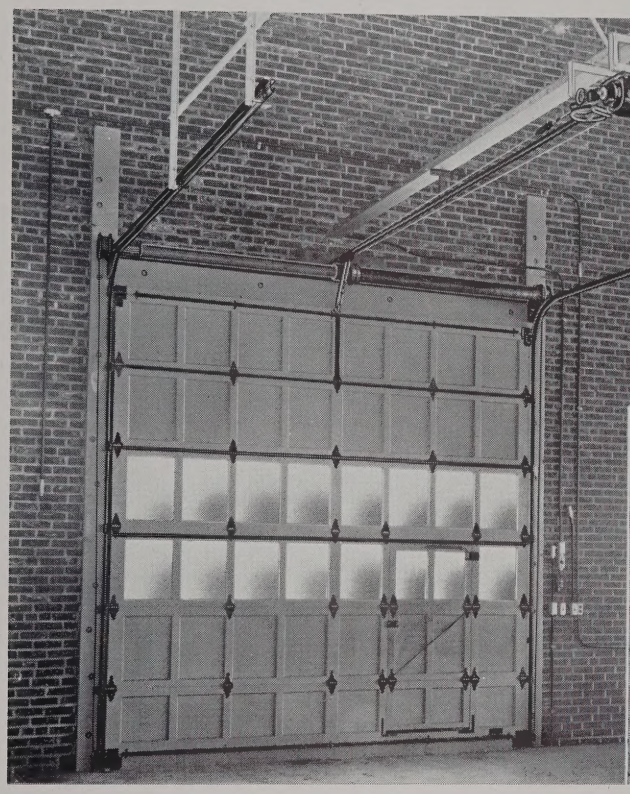
Specify Class Number, Type and Size of Door, Headroom, Sideroom and Current.

110 Volts, 60 Cycle, Single Phase, A. C. is standard for all operators except E4131 B1 and E4131 G1; for these the power circuit is recommended, preference as follows: (a) 220 Volts, 60 Cycle, 3 Phase, A. C.; (b) 220 Volts, 60 Cycle, Single Phase, A. C.; (c) 110 Volts, 60 Cycle, Single Phase, A. C.

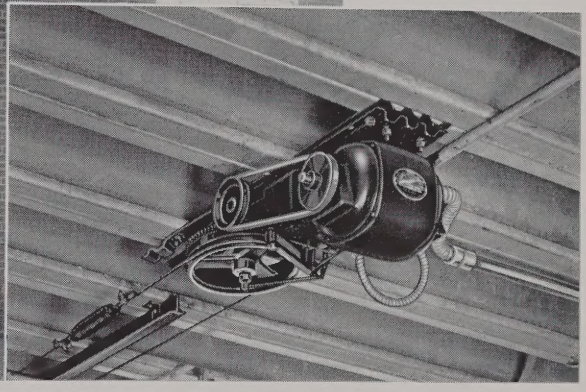
Electric Operator

E4131 DRI

For Industrial and Commercial "Roll-Up" Garage Doors (over 8′ x 8′ and up to 12′ x 12′)



Inside View
2715 "Roll-Up" Door and E4131 DRI Operator



Close-up of Motor Unit

Stanley Electric Operators for industrial and commercial doors are built to meet rigid requirements. They are sufficiently sturdy to withstand the relatively high frequency expected in such installations.

Push Button Station

A momentary pressing of either control button causes door to open completely or, if open, to close tight.

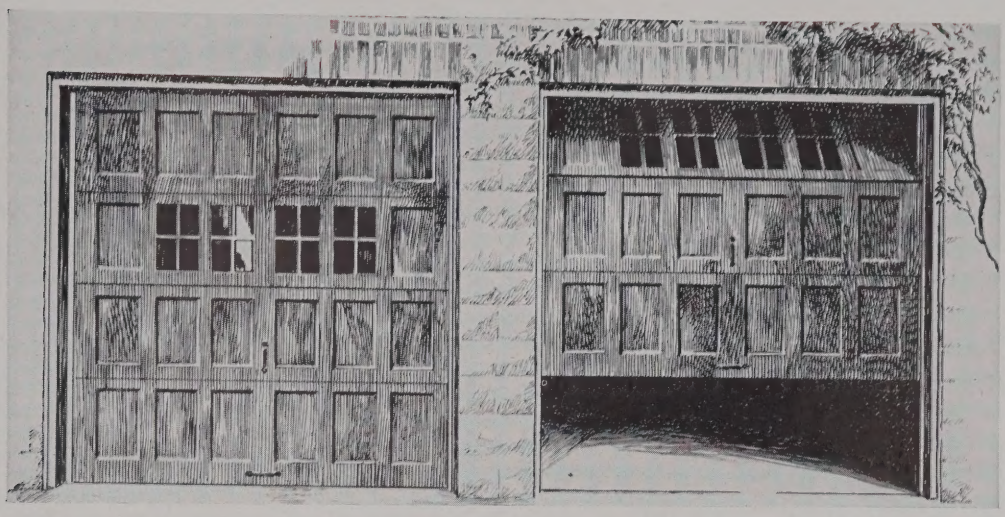
The E4131 DRI operator includes the motor and gear reduction unit complete, cable for connecting the door arm, the door arm itself and a "T" rail over which the door arm slides when opening or closing.

One single inside push button station is furnished, with three buttons marked "open," "close" and "stop." No conduit, wiring or fittings are included as a part of the operator, nor necessary supports for installation.

The motor is 1/3 horse power and exerts a force of 175 pounds or more vertically when the door is closed. It is regularly furnished for 110 volt, 60 cycle, A.C., single phase current, but can be furnished to order for 220 volt, three phase current.

Shipping weight approximately **125** *lbs.*

"Roll-Up" Doors



General Information

Doors roll up vertical tracks and rest on horizontal tracks when fully open. Action is smooth and easy under any and all conditions. Large doors operate as easily as small doors.

Doors are of three or more horizontal sections, with edges of each section rabbetted. Holes and mortises are made at the factory insuring that they will be accurately located and to save time in the field.

The hardware (except outside handles) is inside out of the weather. The proper size and type of spring is furnished for each door, thoroughly tested at the factory for the particular door on which it is to be used. Each door is provided with a heavy cylinder sliding bolt which engages in a slot in the track. A quarter turn of the outside handle locks the door. Operated from the inside by an automatic spring trip.

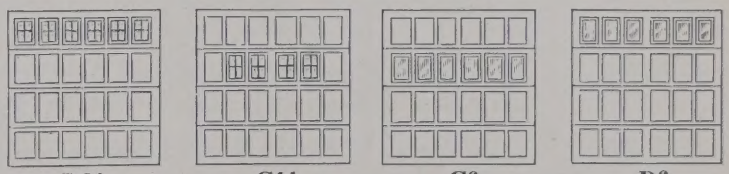
A cord is provided for bringing the door down to within easy reach for closing. A hand chain operator is furnished for large doors. Ball bearings in the rollers make the opening and closing of the door smooth and quiet in operation.

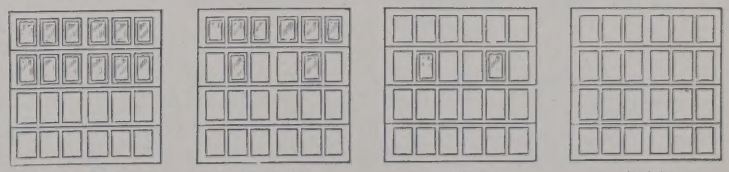
Doors are regularly furnished unpainted and unglazed, but can be obtained with a priming coat when desired. Built-in pass doors, V-joint and special design doors, also metal clad doors, can be had on order.

Doors are balanced at the factory for single strength glass. If double strength glass, polished or rough wire glass, plate glass, ribbed glass, Florentine sheet prism, moss or other glass is to be used, order should so state.

A safety device is furnished on order which prevents door from falling in event of spring failure or accident to door.

Doors are obtainable in distinctive patterns as shown below





Door sections are lettered from the bottom (i.e., "A" is the bottom section, "B" the second section and so on).

Lights are numbered according to the number of lights desired (i.e., "6" means six lights, "64" designates six lights of four panes each). Thus an 8′x8′ door with six lights of four panes each in the top ("D") section is specified as "2711 8′x8′ D64."

"Roll-Up" Doors

Types and Classifications

For further details of each set, see pages following description

Residential

Number

2710 ..... Three sections only, 1⅜" thick, torsion spring. Standard sizes for openings 8′ x 6′6″, 8′ x 7′, 8′ x 7′6″ and 8′ x 8′ only. Track assembly Plain Steel, door hardware Japanned. (272, 273)

2710 VS ..... As above, except vertical tension spring. (270, 273)

2710 HS-MC .... Same as 2710, except tension springs over horizontal tracks. (271, 273)

2710 HS-OC ..... Same as 2710, except tension springs alongside horizontal tracks. (271, 273)

* * * *

2711 De luxe .... Four sections (three sections below 7′ high), 1⅜" and 1¾", vertical tension spring. All sizes 8′ x 8′ and less. Rear cross angle with chain suspension, all hardware Japanned. (268, 269)

2711 VS ..... As 2711 De luxe, except horizontal tracks suspended with strap hangers. Track assembly Plain Steel, door hardware Japanned. (268, 270)

* **2711 HS-MC** .... As above, except tension springs over horizontal tracks. (268, 271)

* **2711 HS-OC** ..... As above, except tension springs alongside horizontal tracks. (268, 271)

2711 TS ..... Four sections, 1⅜" and 1¾", otherwise same as 2710, stock sizes 8′ x 7′, 8′ x 7′6″ and 8′ x 8′ only. (272, 273)

* Furnished on order with track assembly Japanned finish. When ordering, specify **2711 HM** or **2711 HO** respectively.

Commercial and Industrial

Number

† **2711½** ..... Three or more sections, 1¾" thick, sizes up to 196 sq. ft. Vertical tension spring. Angle hangers regular, chain suspension optional. (274-276, 278)

† **2711½ HM** ..... As above, except tension springs over horizontal tracks. (274-276, 279)

† **2711½ HO** ..... As above, except tension springs alongside horizontal tracks. (274-276, 279)

† Previously 2711 over 8′ x 8′.

* * * *

2715 ..... Three or more sections, 1¾" thick, sizes up to 196 sq. ft. Torsion spring over header. Angle hangers regular, chain suspension optional. (274-277)

2715 HL ..... As above, except high-lift type, for raising door higher vertically than standard. Over 9′ high furnished with torsion spring at rear of horizontal tracks. (280, 281)

2715 RS ..... Same as 2715, except torsion spring located at rear of horizontal tracks. (277)

2715 RS-MP .... Same as 2715 RS, except with movable center post for wide openings using two or more doors. (282, 283)

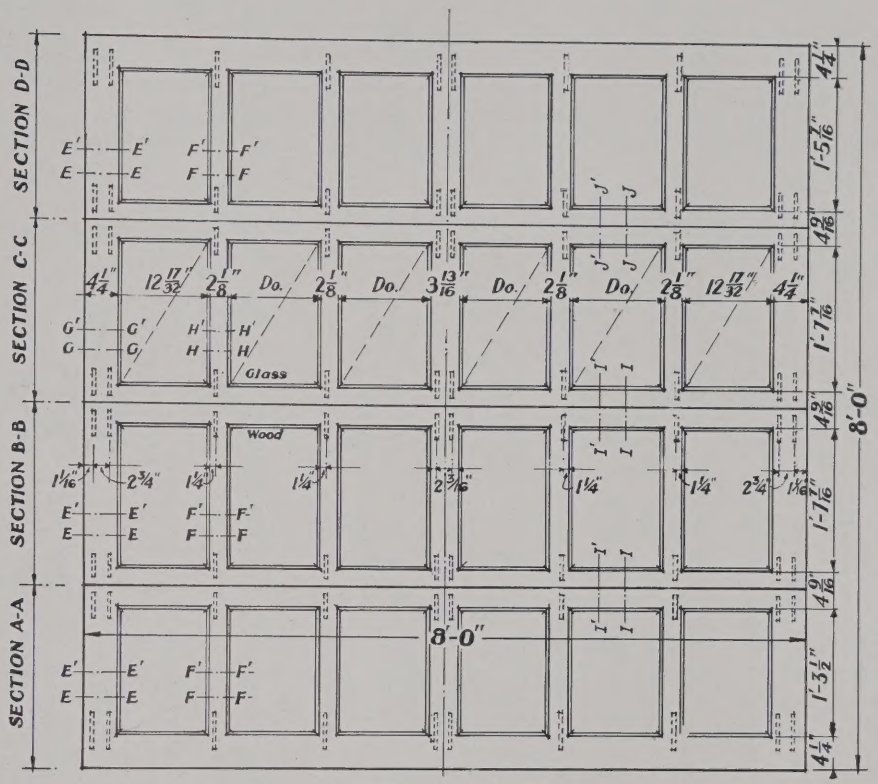
* * * *

2712 ..... Same as 2715, except extra heavy equipment, using 3" track, for large openings over 196 sq. ft., or for very heavy doors smaller in area. (284, 285)

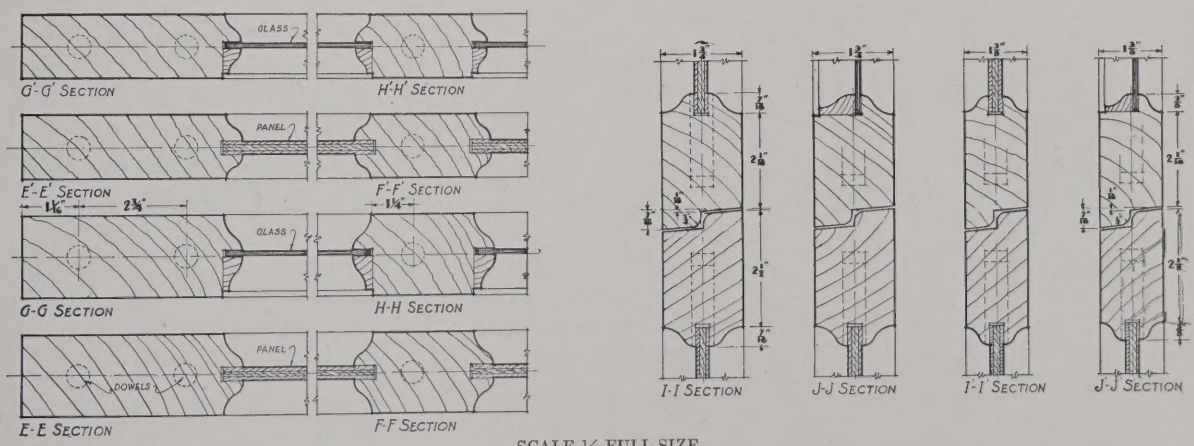
Headroom and Sideroom Requirements, see page 263

"Roll-Up" Door Specifications

Typical 8′ 0″ x 8′ 0″ (4-Section) Stock Door



SCALE ½″ = 1 Ft. Stile and Rail dimensions shown are on the flat.



SCALE ¼ FULL SIZE

Spirally grooved hardwood dowels, 5″ x ½″ in top and bottom rails, all others 3½″ x ½″.

Doors over 16′ wide are made with 6⅞″ bottom rails, 5⅛″ top rails and end stiles, 4⅝″ center stiles and 2⅞″ intermediate stiles. On doors over 18′ wide the bottom rail is 8⅞″ wide, other dimensions as above.

"Roll-Up" Door Specifications

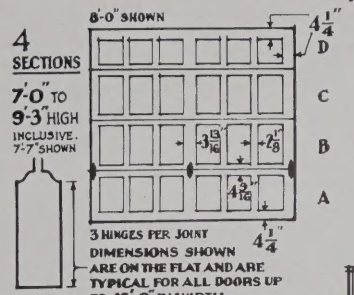
6 PANELS, ALL DOORS UP TO **10'-0"** (INC.) IN WIDTH. (FRACTIONAL FIGURES OVER GLASS PANELS AS ORDERED — THE LIMITING FIGURE GO WITH LESSER DIMENSION. THUS A 10'-0 7/8" DOOR HAS 6 PANELS, A 12'-0 1/2" DOOR HAS 8.

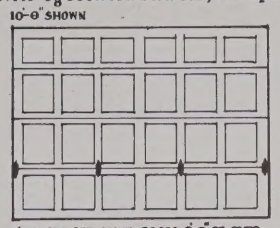
8 PANELS, DOORS FROM 10'-1" TO 12'-0" (INC.)

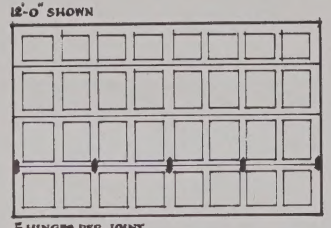
10 PANELS, DOORS FROM 12'-1" TO 16'-0" (INC.)
USE FRAME DIMENSIONS AS SHOWN FOR 6 PANEL DOOR (To Left)
" " BELOW ARE FOR DOORS OVER 16'-0"

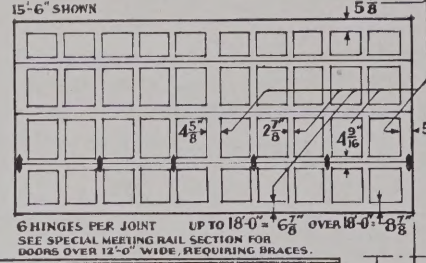
12 PANELS DOORS 16' TO 20'
MADE OF SITKA SPRUCE WITH THESE FRAME DIMENSIONS

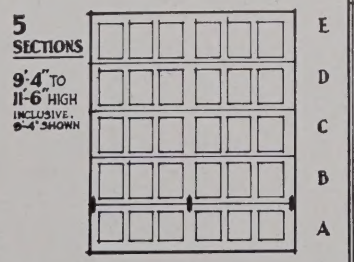
FOR DOORS REQUIRING SPECIAL SECTIONS, PANELS, CURVED TOPS, PANEL MOLDS, RAISED PANELS, GLAZING, VERT. or HORIZ. BOARDING, ETC., CONSULT THE FACTORY.

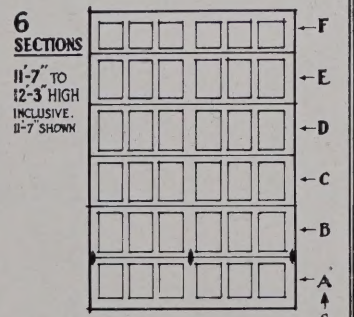







15'-6" SHOWN
5 8"
4 5/8"
2 7/8"
4 3/16"
5 1/8"
6 HINGES PER JOINT UP TO 18'-0" = 6 7/8" OVER 18'-0" = 8 7/8"
SEE SPECIAL MEETING RAIL SECTION FOR DOORS OVER 12'-0" WIDE, REQUIRING BRACES.

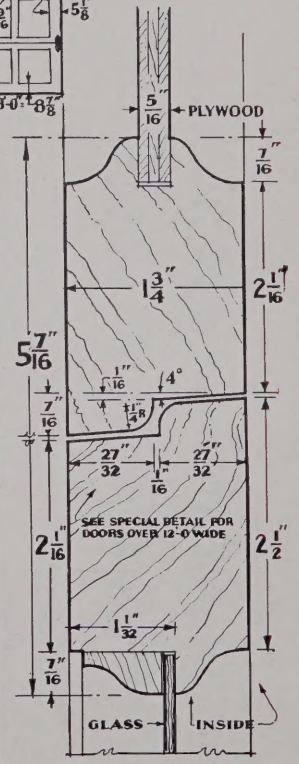




HIGHER DOORS TO SPECIAL DETAILS
TO 13'-9" - 6 SECTIONS
" 14'-7" - 7 "

7'-7" TO 8'-5" HIGH - 4 SECTIONS	8'-6" TO 9'-3" HIGH - 4 SECTIONS	9'-4" TO 9'-6" HIGH 5 SECTIONS	9'-7" TO 10'-5" HIGH 5 SECTIONS
A SECT. = 24 1/4" HIGH; B,C. = 24" HIGH	A SECT. = 27 1/4" HIGH; B,C. = 27" HIGH	ALL SECTIONS A = 22 3/4" HIGH	A SECT. = 24 1/4" HIGH, B,C,D = 24" HIGH
7'-7" DOOR, SECT D = 18 13/16"	8'-6" DOOR, SECT. D = 20 13/16"	" " B,C,D. = 22 1/2" "	9'-7" DOOR, SECTION E = 18 13/16"
7'-8" " " " = 19 13/16"	8'-7" " " " = 21 13/16"	9'-4" DOOR, SECT. E = 21 13/16"	9'-8" " " " = 19 13/16"
7'-9" " " " = 20 13/16"	8'-8" " " " = 22 13/16"	9'-5" " " " = 22 13/16"	9'-9" " " " = 20 13/16"
7'-10" " " " = 21 13/16"	8'-9" " " " = 23 13/16"	9'-6" " " " = 23 13/16"	9'-10" " " " = 21 13/16"
7'-11" " " " = 22 13/16"	8'-10" " " " = 24 13/16"		9'-11" " " " = 22 13/16"
8'-0" " " " = 23 13/16"	8'-11" " " " = 25 13/16"	NOTE - WHERE ADJOINING DOORS ARE NOT SAME SIZE, ONE MUST OFTEN BE SPECIAL TO LINE WITH OTHER	10'-0" " " " = 23 13/16"
8'-1" " " " = 24 13/16"	9'-0" " " " = 26 13/16"		10'-1" " " " = 24 13/16"
8'-2" " " " = 25 13/16"	9'-1" " " " = 27 13/16"	SEE SEPARATE SHEETS FOR LAYOUT OF HOLES, FOR VARIOUS TYPES OF HARDWARE (2711, 2715, H.L.; M.P. R.S. ETC)	10'-2" " " " = 25 13/16"
8'-3" " " " = 26 13/16"	9'-2" " " " = 28 13/16"		10'-3" " " " = 26 13/16"
8'-4" " " " = 27 13/16"	9'-3" " " " = 29 13/16"		10'-4" " " " = 27 13/16"
8'-5" " " " = 28 13/16"			10'-5" " " " = 28 13/16"

6'-6" HIGH 3 SECT. TO 7'-0" TO 7'-6" H 4 SECT								10'-6" TO 10'-9" HIGH - 5 SECTIONS	10'-10" TO 11'-6" HIGH - 5 SECTIONS	11'-7" TO 12'-3" HIGH - 6 SECTIONS
DOOR	A	B	C	DOOR	A	B	C	D	ALL SECTIONS A = 27 1/4" HIGH	A SECT. = 27 1/4" HIGH; B,C,D = 27" HIGH	A SECT. = 24 1/4" HIGH; B,C,D,E = 24" HIGH
6'-6"	27 1/4"	24"	26 13/16"	7'-0"	21 1/4"	21"	20 13/16"		" " B,C,D. = 24" "	10'-10" DOOR, SECT. E = 21 13/16"	11'-7" DOOR, SECT. F = 18 13/16"
6'-7"	" 27"	24 13/16"		7'-1"	" "	"	21 13/16"		10'-6" DOOR, SECT E = 26 13/16"	10'-11" " " " = 22 13/16"	11'-8" " " " = 19 13/16"
6'-8"	" "	25 13/16"		7'-2"	" "	"	22 13/16"		10'-7" " " " = 27 13/16"	11'-0" " " " = 23 13/16"	11'-9" " " " = 20 13/16"
6'-9"	" "	26 13/16"		7'-3"	24 1/4"	"	20 13/16"		10'-8" " " " = 28 13/16"	11'-1" " " " = 24 13/16"	11'-10" " " " = 21 13/16"
6'-10"	" "	27 13/16"		7'-4"	"	"	21 13/16"		10'-9" " " " = 29 13/16"	11'-2" " " " = 25 13/16"	11'-11" " " " = 22 13/16"
6'-11"	" "	28 13/16"		7'-5"	"	"	22 13/16"			11'-3" " " " = 26 13/16"	12'-0" " " " = 23 13/16"
2710 TYPE 3 SECTS.				7'-6"	"	"	23 13/16"		FRACTIONAL FIGURES IN DOOR HEIGHTS ARE ADDED TO THE TOP SECTION. THUS A 10'-7 1/2" DOOR HAS AN E SECT - 28 3/16" HIGH.	11'-4" " " " = 27 13/16"	12'-1" " " " = 24 13/16"
6'-6"	26 1/4"	26	25 13/16"	7'-6	30 1/4"	30	29 13/16"			11'-5" " " " = 28 13/16"	12-2" " " " = 25 13/16"
7'-0"	28 1/4"	28	27 13/16"	8'-0	32 1/4"	32	31 13/32"			11'-6" " " " = 29 13/16"	12-3" " " " = 26 13/16"



DIMENSIONS - MEETING RAIL SECTION TYPICAL 1 3/4" DOOR

TABLE SHOWING SIZE AND ARRANGEMENT OF SECTIONS AND PANELS OF ALL "ROLL-UP" DOORS USED WITH
STANLEY
HARDWARE

STANLEY
SW
STANLEY

"Roll-Up" Doors
Headroom and Sideroom Requirements

Doors over 8'x8'	Headrm	Sideрm
2711½"	13½"	5"
2711½" HM	13"F, 20"R.	3½"
2711½" HO	13"	5"
2712	19½"	5"-10" Chain
2715	16"	6"
2715 RS (or RSMP)	13"F, 14"R.	3½" (6" Post Side of MP)
2715 HL	As Ordered	6" Doors to 9'-0" High. Over 9'-0" are RS. (=3½")

Doors 8'x8' or less	
1⅜" Only -	2710 - 2711 TS
1⅜" only -	2710 or 2711 VS
	2710 or 2711 HS-OC or HO
	2710 or 2711 HS-MC or HM
1¾" also for these	

Headroom	Sideroom
8½"	4"
9½"	5"
8½"	5"
12"F, 18"R.	4" (Except where brackets turned in, to special order = 2¼")

HEADROOM SIGNIFIES THE CLEAR SPACE REQUIRED ABOVE THE TOP OF THE DOOR AND FOR THE FULL DEPTH SPECIFIED IN THE DEPTH TABLE. THIS HEADROOM LINE IS NOT NECESSARILY THE CEILING BUT IS THE LINE OF THE LOWEST PROJECTION.

REAR HANGER CENTER

ALL 2710-11 DOORS = 1"
" 2712 " = 4½"
" 2711½15 " = 5"
EXCEPT 2715 RS OR RSMP = 1"

9½" WHERE REAR SPRING USED, IT PROJECTS BEYOND TRACK

DEPTH TO REAR

FROM FACE OF BUCK

ALL 2710 — 2711 DOORS - 1⅜" (for 1¾" Add ⅜")

7'-0" HIGH	= 8'-8¼"
to 7'-6" "	= 9'-2¼"
to 8'-0" "	= 9'-8¼"

ALL 2711 - 2715 DOORS (7' to 8' Not Stock)

7'-0" to 7'-6"	= 9'-6¾"
7'-7" " 8'-5"	= 10'-6¾"
8'-6" " 9'-3"	= 11'-3¾"
9'-4" " 9'-6"	= 11'-6¾"
9'-7" " 10'-5"	= 12'-6¾"
10'-6" " 10'-9"	= 12'-9¾"
10'-10" " 11'-6"	= 13'-6¾"
11'-7" " 12'-3"	= 14'-3¾"

INTERMEDIATE HANGER CENTER ON ABOVE DOORS - 6'-0½" FROM REAR OF TRACK

2715 R.S. - SAME TRACK AND HANGERS AS ABOVE BUT SPRING UNIT AT REAR OVERHANGS 9½" MORE

2712 = DOOR HEIGHT + 29¾"
INTERM. HANGER = ½ DOOR + 4⅛"
(FROM REAR OF TRACK)

2715 HL DEPTH VARIES WITH LIFT

HEADROOM

DOOR WIDTH =

PANELS WIDE —
SEE STANLEY WORKS STANDARDS UNLESS SPECIAL REQ.

DOOR HEIGHT =

SECTIONS HIGH
SECTIONS GLAZED

ANCHOR BOLTS
APPROX. WIDTH OF DOOR SECTIONS APART
COUNTERSINK HEADS

BUCKS (AND STOPS) NOT FURNISHED BY THE STANLEY WORKS
2"x6" RECOMMENDED FOR ALL DOORS (WHERE USABLE) AT HEAD & SIDE JAMBS CARRY SIDES TO HEADROOM & TO FLOOR.

WOOD JAMBS ON MASONRY IN A TYPICAL OPENING

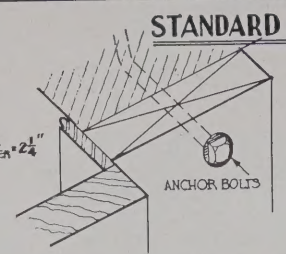
SIDEROOM =

SEE TABLE ABOVE FOR REQUIREMENTS — DETAILS AT RIGHT FOR TYPE

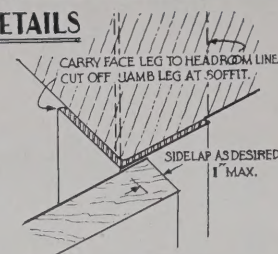
BUCK — 2¼" FOR 1¾" DOORS OVER 8x8 TYPE; 2" " " " (8x8' OR LESS TYPE — AND ALL 1⅜" DOORS WITH STEEL JAMBS); 1⅝" ALL 1⅝" " ; 1" MAX

SILL RABBET (IF ANY)

STANDARD DETAILS

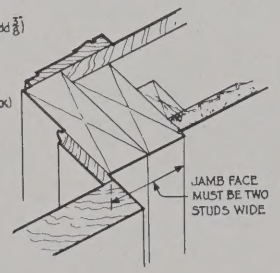


A - WOOD BUCKS ON MASONRY
AS SHOWN IN TYPICAL DETAIL

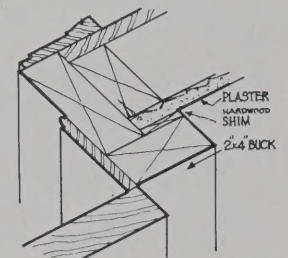


B - STEEL ANGLE JAMB
PREFERABLY 4"x4" EXCEPT 2712 = 5"x5"

C - OTHER TYPES OF STEEL JAMBS
MUST BE FLUSH, HEAD & SIDE JAMBS; SIDE BEARING CARRIED TO HEADROOM.



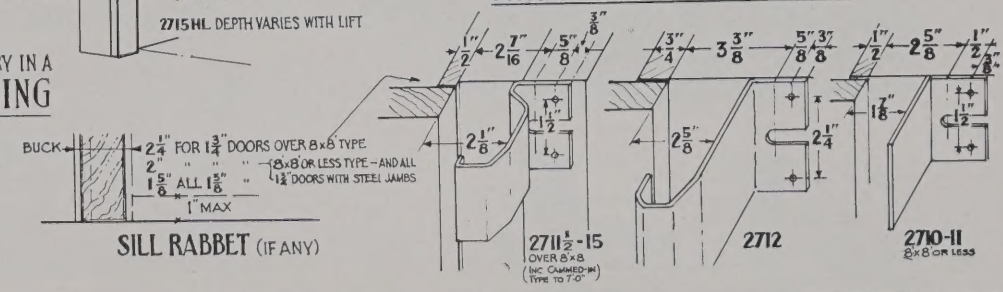
D - WOOD CONSTRUCTION
RECOMMENDED DETAIL



E - WHERE JAMB FACE IS ONLY ONE STUD WIDE, JAMB MUST BE WIDENED IN SOME SUCH WAY AS SUGGESTED ABOVE, EXCEPT AS IN F.

F - ONE STUD WIDTH SUFFICIENT FOR — ANGLE MOUNTED TRACKS TURNED IN, 2715 REAR SPRING CABLE INSIDE, 2710-11 HS-MC OR 2711 HM. (IF SPECIFIED TRACK BR TURNED IN)

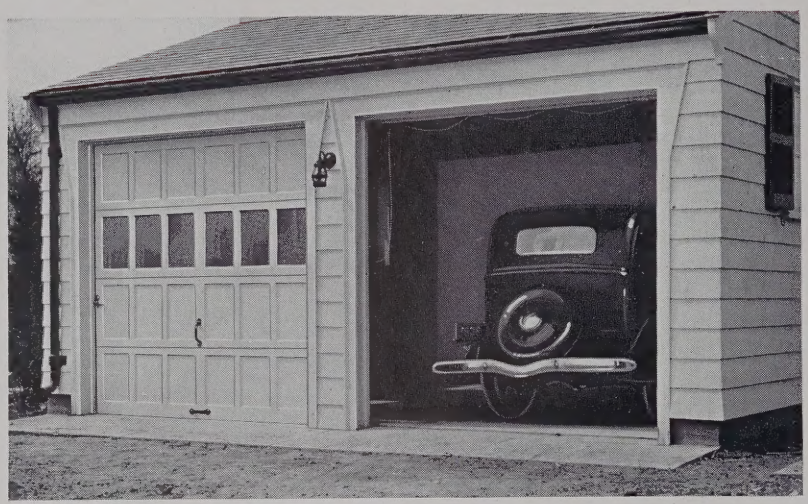
TYPICAL TRACK BRACKET SPACING



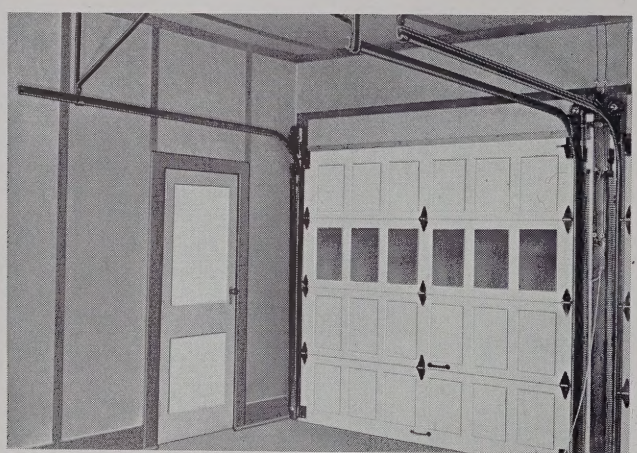
"Roll-Up" Doors

2711 Series

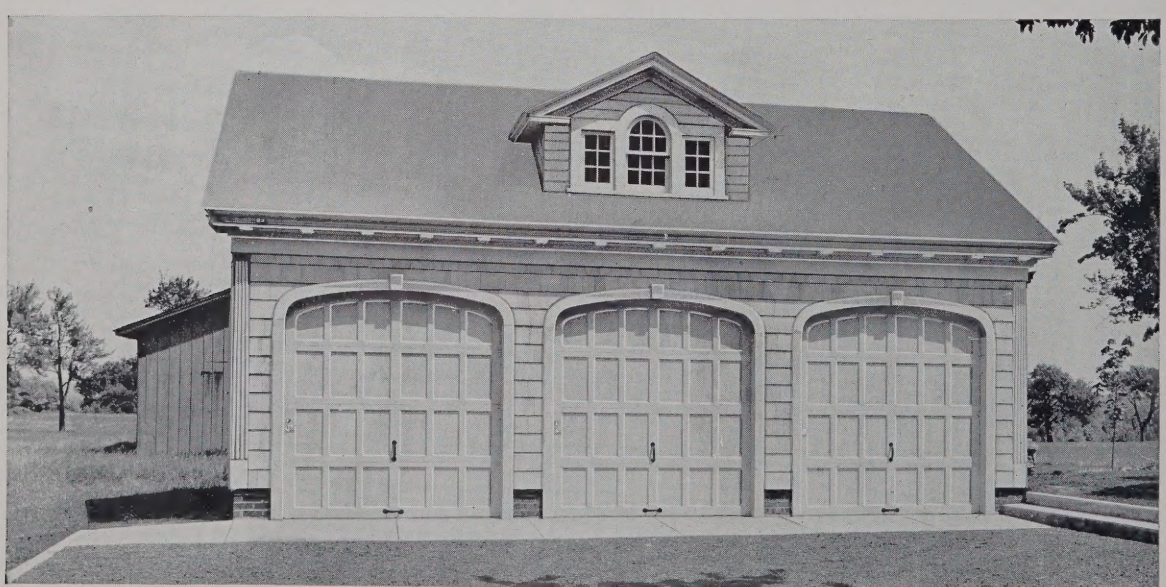
For Residential Garages



C6 Design



C6 Design

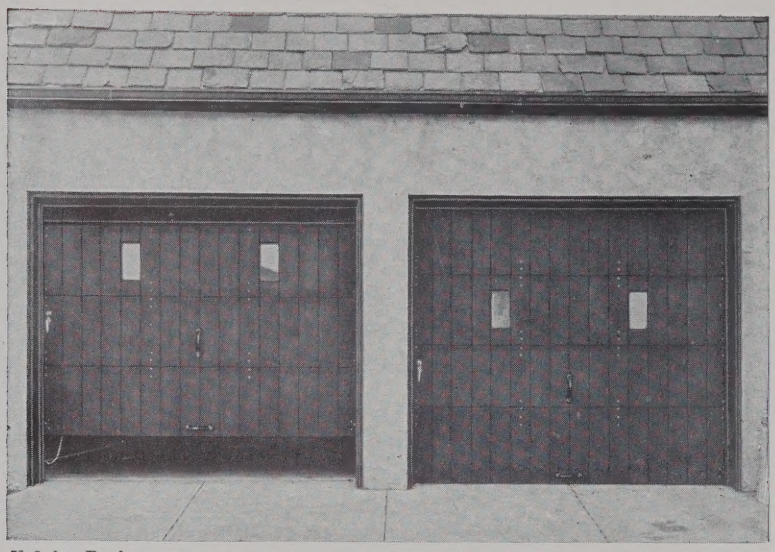


WD Design Circle Head Opening

"Roll-Up" Doors

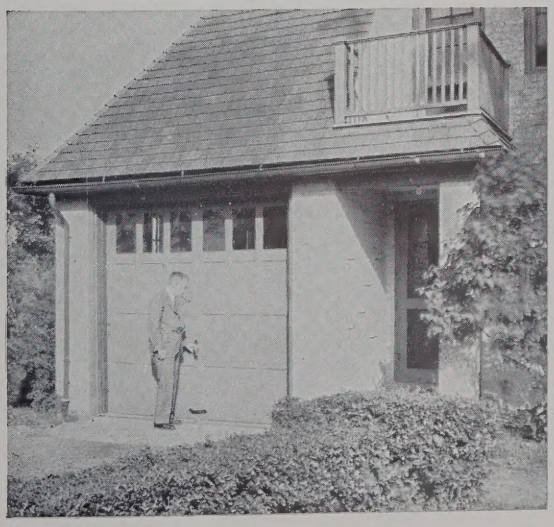
2711 Series

For Residential Garages



V-Joint Design

C44 Design



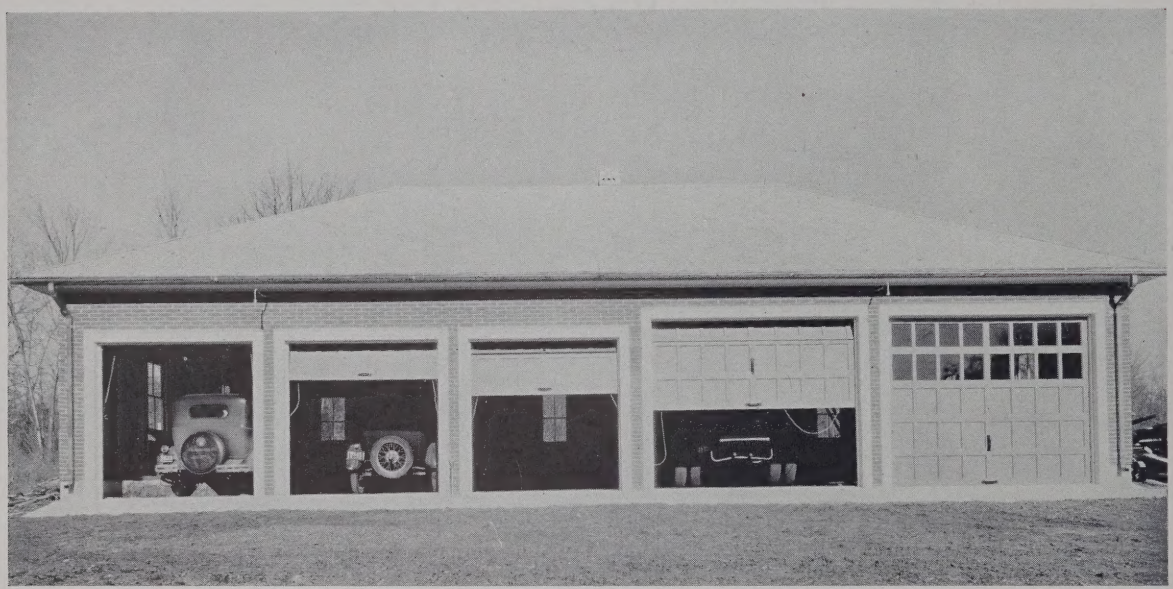
D6 Design

C4 Design

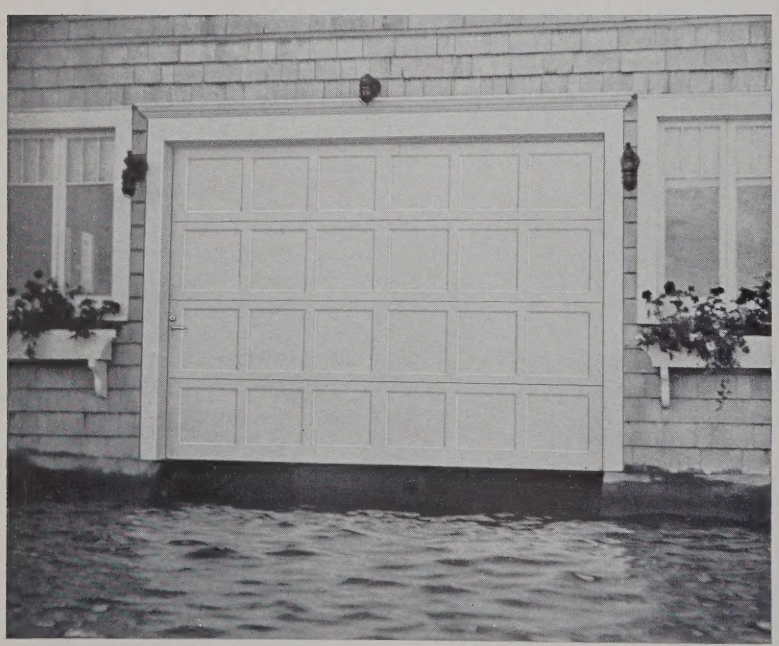
"Roll-Up" Doors

2711 Series

Special Installations



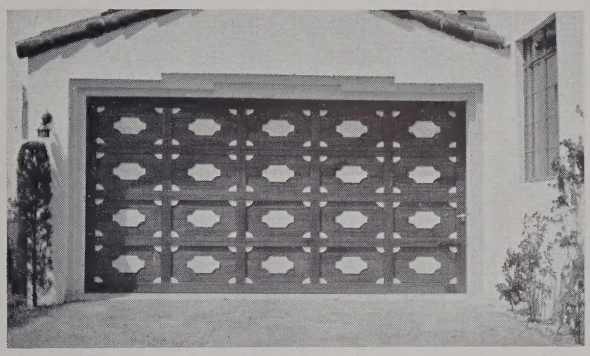
Combination garage—three 8′ x 8′ (2711) openings, in which private cars are housed, and two 11′ x 9′ (2711½) openings, which are used to house large trucks. The complete installation is attractive in appearance. A real saving is effected by combining the private and commercial garages under one roof.

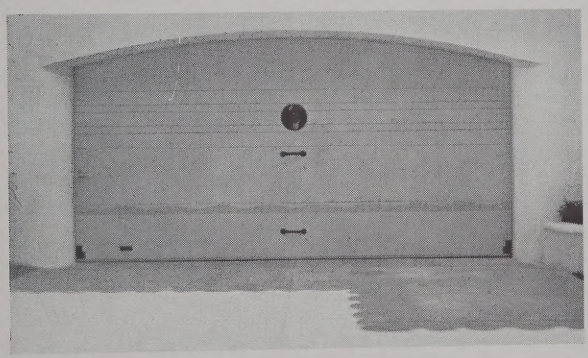


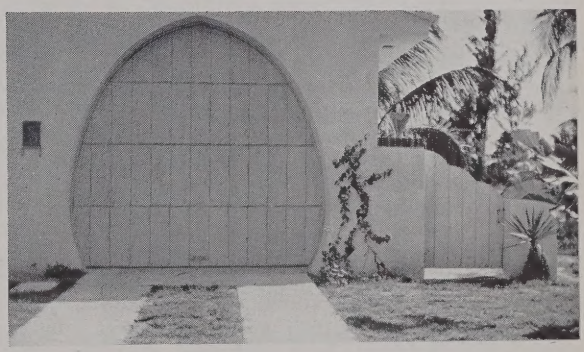
Above is shown another popular field for Stanley "Roll-Up" Doors, on boat houses. Security against both waves and intruders is assured, as well as easy operation.

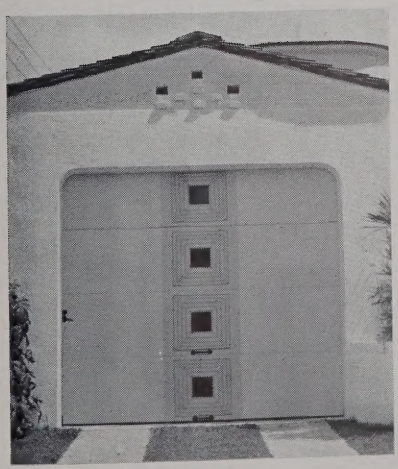
"Roll-Up" Doors

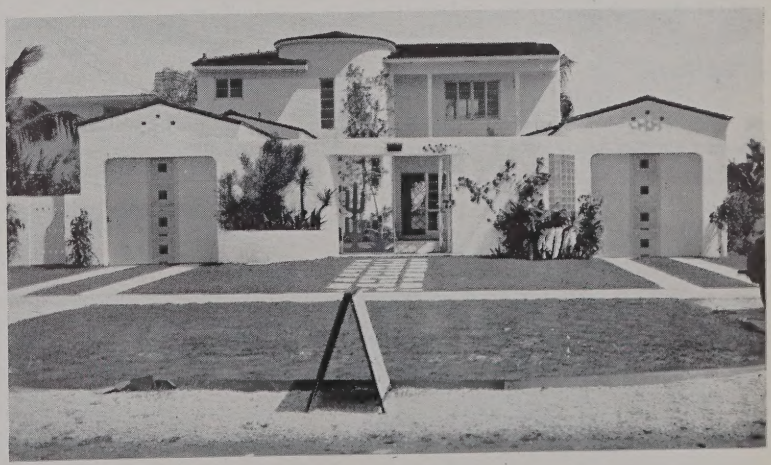
Showing a few unusual door treatments











"Roll-Up" Doors

2711 Series

For Residential Garages

Specifications

Doors

Stock sizes, 7′6″ x 7′, 7′6″ x 7′6″, 1⅜″ in thickness only, and 8′ x 7′, 8′ x 7′6″, 8′ x 8′, 1⅜″ and 1¾″ in thickness, four sections. In designs shown on page 259, except 7′6″ x 7′, which is furnished only in designs C6 and WD, and 7′6″ x 7′6″, furnished only in designs C6, D6, C6D6 and WD.

Furnished in odd sizes less than 8′ x 8′, or special designs, on order.

Made with No. 1 pine stiles and rails, doweled and assembled with waterproof casein glue. Panels are three-ply fir veneer, with the center ply grain running opposite from the outside plies. Carefully sanded and free from knots.

Glass Sizes:

Door Design	7′ 6″ x 7′	7′ 6″ x 7′ 6″	8′ x 7′	8′ x 7′ 6″	8′ x 8′
C44	.....	.....	5⅞″ x 7¾″	5⅞″ x 8½″	5⅞″ x 9¼″
D64	.....	.....	5⅞″ x 6¾″	5⅞″ x 7½″	5⅞″ x 8¼″
C Section	11¼″ x 16¼″	11¼″ x 17¾″	12¼″ x 16¼″	12¼″ x 17¾″	12¼″ x 19¼″
D Section	.....	11¼″ x 15¾″	12¼″ x 14¼″	12¼″ x 15¾″	12¼″ x 17¼″

Sizes subject to slight variations. For 1¾″ doors, add ⅛″ to each dimension on C and D sections.

Hardware

Hinges—Specially designed, size 7⅞″ x 2⅝″, made of heavy wrought steel, bolted through the door. Japanned finish.

Rollers—Three-piece construction, formed together, with one-piece tire. Fitted with extra large tool steel balls, with hardened steel raceways. Assembly attached permanently to the hinges. Made with a ½″ axial movement to compensate for any possible shrinkage or swelling of door.

Track—Made of 13-gauge wrought steel designed to prevent rollers from slipping out. Vertical track is equipped with heavy brackets, which hold it firmly against the door jambs. Horizontal track is bolted to vertical track and suspended from the ceiling by chains or strap hangers and braces.

Springs—Heavy oil-tempered coil springs arranged vertically or horizontally as ordered. Thoroughly tested at the factory for the door with which they are to be used.

Locking Bolt—A heavy cylinder sliding bolt (Cadmium plated to resist rust) engages in a slot in the track. Backset 2″, throw 2⅛″, thickness of bar ¼″. A quarter turn of the outside handle locks the door. Operated from the inside by an automatic spring trip. Furnished complete with a standard rim cylinder and two keys.

Aircraft Cable—⅛″ in diameter. Runs smoothly over the pulleys without hitching or binding. Tinned to resist rust.

Headroom and Jamb Construction

For headroom and sideroom requirements, see page 263.

Jambs should extend the height of the door plus the headroom. Good construction for all sizes of doors consists of 2 x 6's. Doors can be readily mounted in frame garages on 2 x 4's with the inside edges flush, without extra construction.

***Note*—Special sets for limited headroom and sideroom furnished on order. Submit full construction details.**

Packing

A complete set is packed in two crates, with instructions for installing. Weights (lbs.):

	1⅜″		1¾″	
	Doors	Hardware	Doors	Hardware
7′ 6″ x 7′	110	117	.....	.....
7′ 6″ x 7′ 6″	115	120	.....	.....
8′ x 7′	120	122	150	122
8′ x 7′ 6″	125	125	157	125
8′ x 8′	135	130	165	130

Note—Add 10 lbs. to weight of hardware for 2711 De luxe type.

Finish

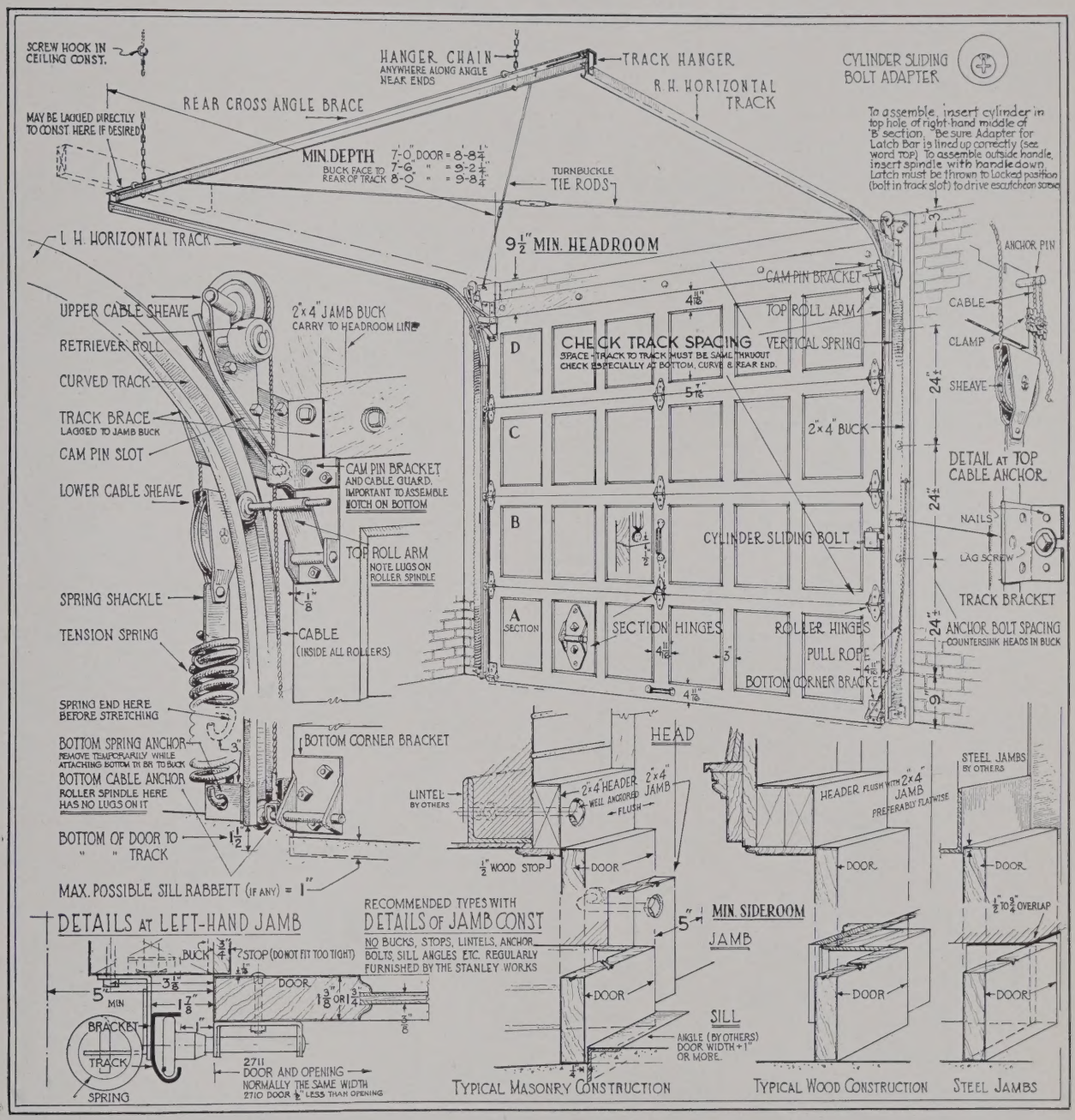
Door hardware regularly furnished in Japanned finish, with locking bolt Cadmium Plated. On **2711 De luxe**, track assembly also Japanned; other sets, track assembly Plain Steel.

***Specify Class Number** (see page 260), **Size, Thickness, Door Design** (see page 259) **and** (**Jamb Construction if other than Wood**)*

"Roll-Up" Doors

2711 De luxe

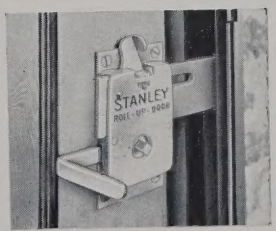
Details


SCREW HOOK IN CEILING CONST.
HANGER CHAIN ANYWHERE ALONG ANGLE NEAR ENDS
TRACK HANGER
R.H. HORIZONTAL TRACK
CYLINDER SLIDING BOLT ADAPTER
REAR CROSS ANGLE BRACE
MAY BE LAGGED DIRECTLY TO CONST HERE IF DESIRED
MIN. DEPTH BUCK FACE TO REAR OF TRACK 7'-0" DOOR = 8'-8½" 7'-6" " = 9'-2½" 8'-0" " = 9'-8¼"
TURNBUCKLE TIE RODS
To assemble, insert cylinder in top hole of right-hand middle of 'B' section. Be sure Adapter for Latch Bar is lined up correctly (see word TOP) To assemble outside handle, insert spindle with handle down. Latch must be thrown to Locked position (bolt in track slot) to drive escutcheon screw
L.H. HORIZONTAL TRACK
9½" MIN. HEADROOM
ANCHOR PIN
CAM PIN BRACKET
UPPER CABLE SHEAVE
2"×4" JAMB BUCK CARRY TO HEADROOM LINE
TOP ROLL ARM
CABLE
RETRIEVER ROLL
CHECK TRACK SPACING SPACE TRACK TO TRACK MUST BE SAME THROUGHOUT CHECK ESPECIALLY AT BOTTOM, CURVE & REAR END.
VERTICAL SPRING
CLAMP
CURVED TRACK
SHEAVE
TRACK BRACE LAGGED TO JAMB BUCK
2"×4" BUCK
CAM PIN SLOT
DETAIL AT TOP CABLE ANCHOR
CAM PIN BRACKET AND CABLE GUARD. IMPORTANT TO ASSEMBLE NOTCH ON BOTTOM
LOWER CABLE SHEAVE
NAILS
LAG SCREW
TOP ROLL ARM NOTE LUGS ON ROLLER SPINDLE
CYLINDER SLIDING BOLT
TRACK BRACKET
SPRING SHACKLE
TENSION SPRING
CABLE (INSIDE ALL ROLLERS)
SECTION HINGES
ROLLER HINGES
ANCHOR BOLT SPACING COUNTERSINK HEADS IN BUCK
PULL ROPE
BOTTOM CORNER BRACKET
SPRING END HERE BEFORE STRETCHING
BOTTOM SPRING ANCHOR REMOVE TEMPORARILY WHILE ATTACHING BOTTOM TH. BR. TO BUCK
BOTTOM CABLE ANCHOR ROLLER SPINDLE HERE HAS NO LUGS ON IT
BOTTOM OF DOOR TO " " TRACK
MAX. POSSIBLE SILL RABBETT (IF ANY) = 1"
HEAD
LINTEL BY OTHERS
2"×4" HEADER WELL ANCHORED FLUSH
2"×4" JAMB
½" WOOD STOP
DOOR
HEADER FLUSH WITH 2"×4" JAMB PREFERABLY FLATWISE
STEEL JAMBS BY OTHERS
½" TO ¾" OVERLAP
DETAILS AT LEFT-HAND JAMB
BUCK
STOP (DO NOT FIT TOO TIGHT)
5" MIN
BRACKET
TRACK
SPRING
DOOR
2711 DOOR AND OPENING NORMALLY THE SAME WIDTH 2710 DOOR ½" LESS THAN OPENING
RECOMMENDED TYPES WITH DETAILS OF JAMB CONST
NO BUCKS, STOPS, LINTELS, ANCHOR BOLTS, SILL ANGLES ETC. REGULARLY FURNISHED BY THE STANLEY WORKS
5" MIN. SIDEROOM
JAMB
SILL
ANGLE (BY OTHERS) DOOR WIDTH +1" OR MORE.
TYPICAL MASONRY CONSTRUCTION
TYPICAL WOOD CONSTRUCTION
STEEL JAMBS

Cylinder Locking Bolt

Operation

The bar engages in a slot in the track securely locking the door. Unlocked by key from outside and automatic spring trip on inside. A quarter turn of the handle on either side locks the bolt. Furnished with a standard rim cylinder with two keys.

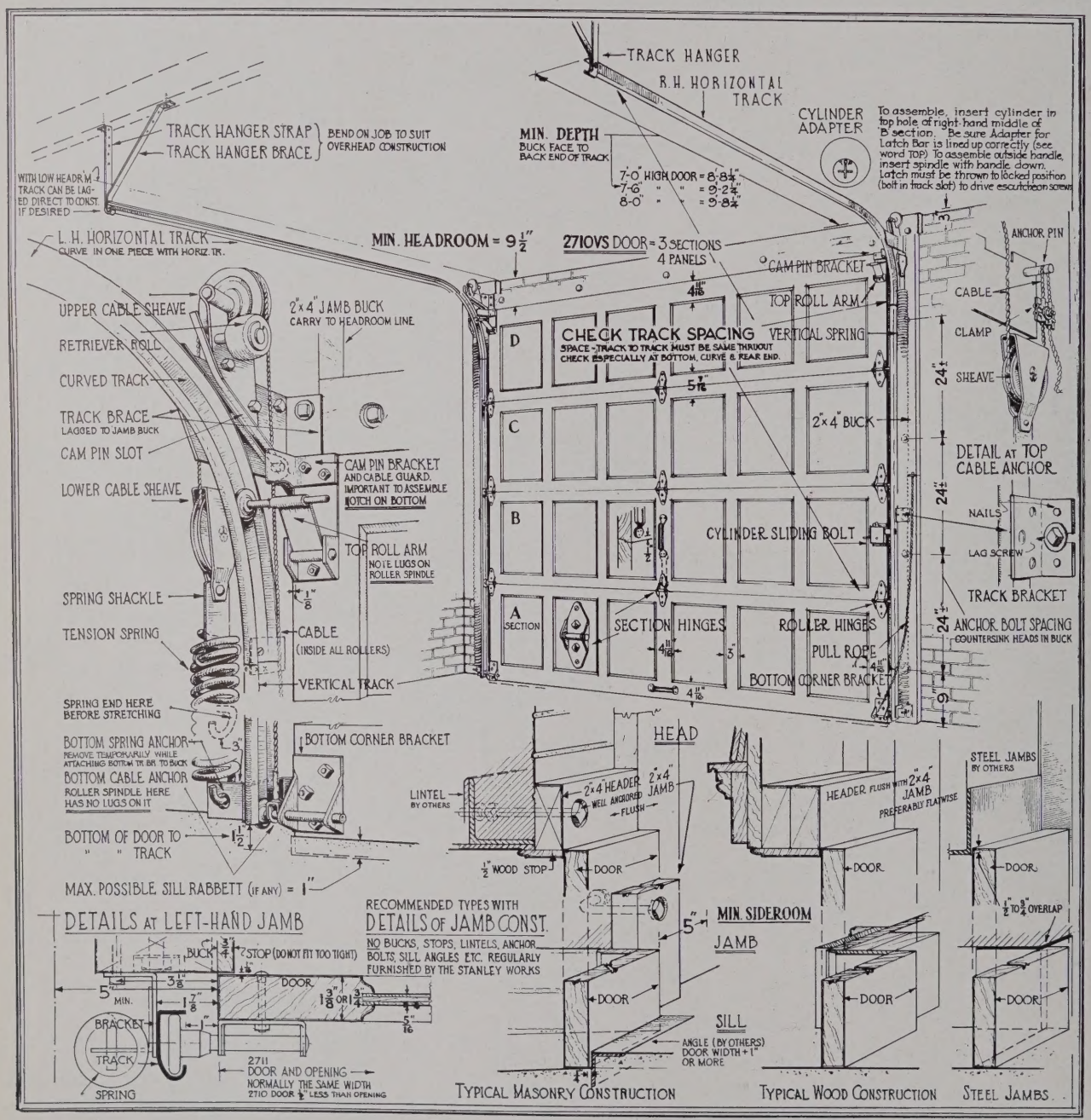


Locked Position
Furnished with all "Roll-Up" Sets

"Roll-Up" Doors

2711 VS

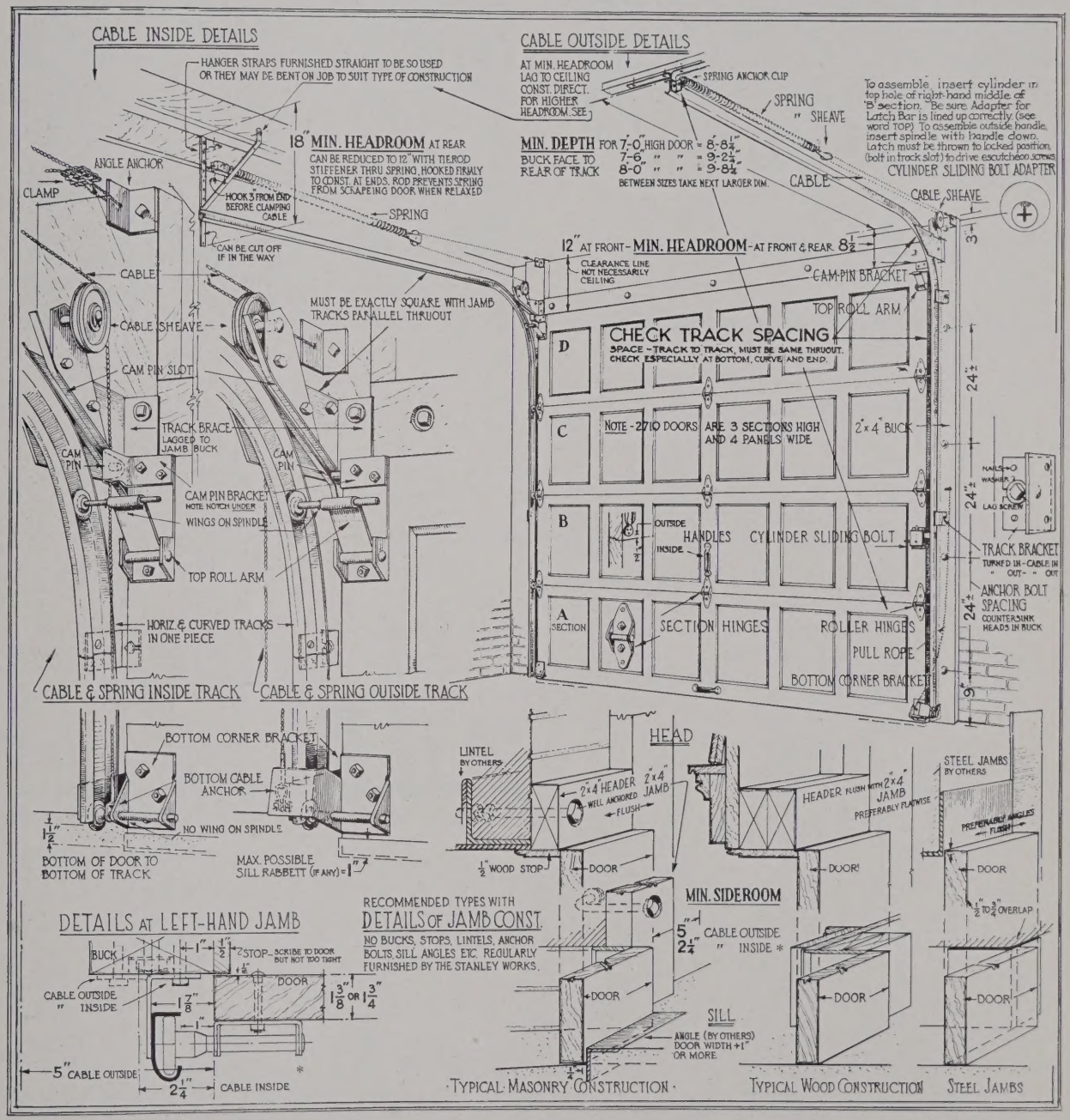
Details


TRACK HANGER
R.H. HORIZONTAL TRACK
CYLINDER ADAPTER
To assemble, insert cylinder in top hole of right-hand middle of 'B' section. Be sure Adapter for Latch Bar is lined up correctly (see word TOP) To assemble outside handle, insert spindle with handle down. Latch must be thrown to locked position (bolt in track slot) to drive escutcheon screws
TRACK HANGER STRAP
TRACK HANGER BRACE
BEND ON JOB TO SUIT OVERHEAD CONSTRUCTION
WITH LOW HEADROOM TRACK CAN BE LAGGED DIRECT TO CONST. IF DESIRED
MIN. DEPTH
BUCK FACE TO BACK END OF TRACK
7'-0" HIGH DOOR = 8'-8¼"
7'-6" " = 9'-2¼"
8'-0" " = 9'-8¼"
L. H. HORIZONTAL TRACK
CURVE IN ONE PIECE WITH HORIZ. TR.
MIN. HEADROOM = 9½"
2710VS DOOR = 3 SECTIONS 4 PANELS
CAM PIN BRACKET
TOP ROLL ARM
VERTICAL SPRING
ANCHOR PIN
CABLE
CLAMP
SHEAVE
24"
UPPER CABLE SHEAVE
2"x4" JAMB BUCK CARRY TO HEADROOM LINE.
RETRIEVER ROLL
CURVED TRACK
TRACK BRACE LAGGED TO JAMB BUCK
CAM PIN SLOT
LOWER CABLE SHEAVE
CAM PIN BRACKET AND CABLE GUARD. IMPORTANT TO ASSEMBLE NOTCH ON BOTTOM
TOP ROLL ARM NOTE LUGS ON ROLLER SPINDLE
CHECK TRACK SPACING
SPACE TRACK TO TRACK MUST BE SAME THROUT
CHECK ESPECIALLY AT BOTTOM, CURVE & REAR END.
D
C
B
A SECTION
2"x4" BUCK
CYLINDER SLIDING BOLT
SECTION HINGES
ROLLER HINGES
PULL ROPE
BOTTOM CORNER BRACKET
DETAIL AT TOP CABLE ANCHOR
NAILS
LAG SCREW
TRACK BRACKET
ANCHOR BOLT SPACING
COUNTERSINK HEADS IN BUCK
SPRING SHACKLE
TENSION SPRING
CABLE (INSIDE ALL ROLLERS)
VERTICAL TRACK
SPRING END HERE BEFORE STRETCHING
BOTTOM SPRING ANCHOR REMOVE TEMPORARILY WHILE ATTACHING BOTTOM TR. BR. TO BUCK
BOTTOM CABLE ANCHOR ROLLER SPINDLE HERE HAS NO LUGS ON IT
BOTTOM OF DOOR TO TRACK
MAX. POSSIBLE SILL RABBETT (IF ANY) = 1"
HEAD
LINTEL BY OTHERS
2"x4" HEADER WELL ANCHORED FLUSH
2"x4" JAMB
½" WOOD STOP
DOOR
HEADER FLUSH WITH 2"x4" JAMB PREFERABLY FLATWISE
STEEL JAMBS BY OTHERS
½" TO ¾" OVERLAP
DETAILS AT LEFT-HAND JAMB
BUCK
STOP (DO NOT FIT TOO TIGHT)
DOOR
MIN.
BRACKET
TRACK
SPRING
2711 DOOR AND OPENING NORMALLY THE SAME WIDTH 2710 DOOR ½" LESS THAN OPENING
RECOMMENDED TYPES WITH DETAILS OF JAMB CONST.
NO BUCKS, STOPS, LINTELS, ANCHOR BOLTS, SILL ANGLES ETC. REGULARLY FURNISHED BY THE STANLEY WORKS
MIN. SIDEROOM
JAMB
SILL
ANGLE (BY OTHERS) DOOR WIDTH + 1" OR MORE
TYPICAL MASONRY CONSTRUCTION
TYPICAL WOOD CONSTRUCTION
STEEL JAMBS

"Roll-Up" Doors

2711 HS-MC
2711 HS-OC

Details

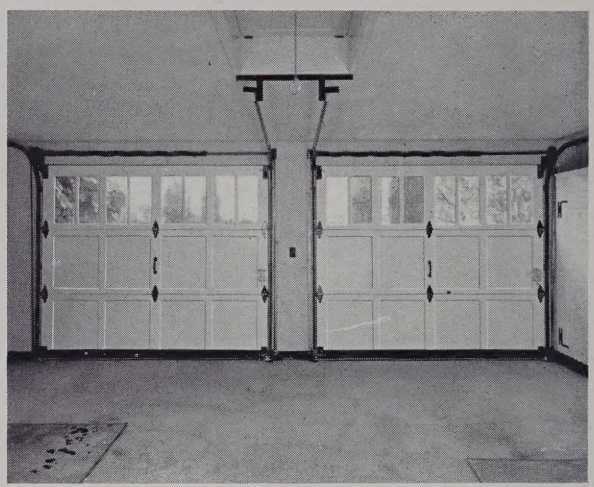

CABLE INSIDE DETAILS
HANGER STRAPS FURNISHED STRAIGHT TO BE SO USED OR THEY MAY BE BENT ON JOB TO SUIT TYPE OF CONSTRUCTION
18" MIN. HEADROOM AT REAR
CAN BE REDUCED TO 12" WITH TIE ROD STIFFENER THRU SPRING, HOOKED FIRMLY TO CONST. AT ENDS. ROD PREVENTS SPRING FROM SCRAPEING DOOR WHEN RELAXED
ANGLE ANCHOR
CLAMP
HOOK 3 TURNS END BEFORE CLAMPING CABLE
SPRING
CAN BE CUT OFF IF IN THE WAY
CABLE
CABLE SHEAVE
CAM PIN SLOT
TRACK BRACE LAGGED TO JAMB BUCK
CAM PIN
CAM PIN BRACKET NOTE NOTCH UNDER
WINGS ON SPINDLE
TOP ROLL ARM
HORIZ. & CURVED TRACKS IN ONE PIECE
MUST BE EXACTLY SQUARE WITH JAMB TRACKS PARALLEL THRUOUT
CABLE & SPRING INSIDE TRACK
CABLE & SPRING OUTSIDE TRACK
CABLE OUTSIDE DETAILS
AT MIN. HEADROOM LAG TO CEILING CONST. DIRECT. FOR HIGHER HEADROOM SEE
SPRING ANCHOR CLIP
SPRING
" SHEAVE
CABLE
MIN. DEPTH FOR 7'-0" HIGH DOOR = 8'-8 1/2"
BUCK FACE TO REAR OF TRACK 7'-6" " " = 9'-2 1/2"
8'-0" " " = 9'-8 1/2"
BETWEEN SIZES TAKE NEXT LARGER DIM.
12" AT FRONT - MIN. HEADROOM - AT FRONT & REAR 8 1/2
CLEARANCE LINE NOT NECESSARILY CEILING
CAM PIN BRACKET
TOP ROLL ARM
CHECK TRACK SPACING
SPACE - TRACK TO TRACK, MUST BE SAME THRUOUT. CHECK ESPECIALLY AT BOTTOM, CURVE AND END.
NOTE - 2710 DOORS ARE 3 SECTIONS HIGH AND 4 PANELS WIDE.
2"x4" BUCK
OUTSIDE HANDLES CYLINDER SLIDING BOLT INSIDE
SECTION HINGES
ROLLER HINGES
PULL ROPE
BOTTOM CORNER BRACKET
A SECTION
B
C
D
To assemble, insert cylinder in top hole of right-hand middle of "B" section. Be sure Adapter for Latch Bar is lined up correctly (see word TOP) To assemble outside handle, insert spindle with handle down. Latch must be thrown to locked position, (bolt in track slot) to drive escutcheon screws
CYLINDER SLIDING BOLT ADAPTER
CABLE SHEAVE
3"
24 1/2"
NAILS
WASHER
LAG SCREW
TRACK BRACKET TURNED IN - CABLE IN " OUT - " OUT
ANCHOR BOLT SPACING COUNTERSINK HEADS IN BUCK
9"
BOTTOM CORNER BRACKET
BOTTOM CABLE ANCHOR
NO WING ON SPINDLE
1/2"
BOTTOM OF DOOR TO BOTTOM OF TRACK
MAX. POSSIBLE SILL RABBETT (IF ANY) = 1"
HEAD
LINTEL BY OTHERS
2"x4" HEADER WELL ANCHORED FLUSH
2"x4" JAMB
1/2" WOOD STOP
DOOR
HEADER FLUSH WITH 2"x4" JAMB PREFERABLY FLATWISE
STEEL JAMBS BY OTHERS
PREFERABLY ANGLES FLUSH
1/2" TO 3/4" OVERLAP
MIN. SIDEROOM
5" CABLE OUTSIDE
2 1/4" " INSIDE *
SILL
ANGLE (BY OTHERS) DOOR WIDTH +1" OR MORE
DETAILS AT LEFT-HAND JAMB
BUCK
1" 1 1/2"
STOP
SCRIBE TO DOOR BUT NOT TOO TIGHT
1/8"
DOOR
CABLE OUTSIDE
" INSIDE
1 7/8"
1"
3/8" OR 1 3/4"
5" CABLE OUTSIDE
2 1/4"
CABLE INSIDE
*
RECOMMENDED TYPES WITH DETAILS OF JAMB CONST.
NO BUCKS, STOPS, LINTELS, ANCHOR BOLTS, SILL ANGLES ETC. REGULARLY FURNISHED BY THE STANLEY WORKS.
TYPICAL MASONRY CONSTRUCTION
TYPICAL WOOD CONSTRUCTION
STEEL JAMBS

*Note—2711 HS-MC regularly furnished with brackets turned out requiring sideroom of 4". Furnished on order with brackets turned in for sideroom of 2¼".

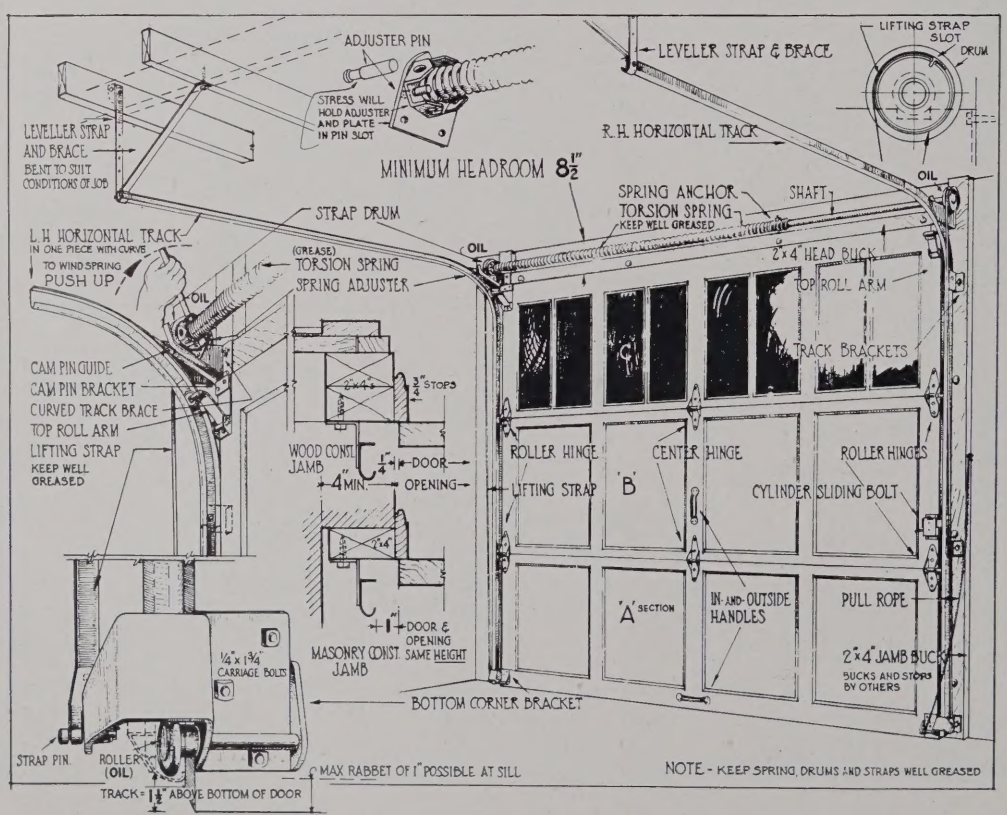
"Roll-Up" Doors

2710

For Residential Garages



Details



Note—**For details on 2710 VS, see page 270; on 2710 HS-MC and 2710 HS-OC, see page 271.**

"Roll-Up" Doors

2710

For Residential Garages

Specifications

Doors

Made only in stock sizes 7′11½″x 6′6″, 7′11½″x 7′, 7′11½″x 7′6″ and 7′11½″x 8′ for standard openings 8′ in width; 1⅜″ in thickness, three sections.

Furnished in design illustrated or with top section having four wood panels similar to two lower sections.

Made of No. 1 pine stiles and rails, doweled and assembled with waterproof casein glue. Panels are three-ply fir veneer, with the center ply grain running opposite from the outside plies. Carefully sanded and free from knots.

Glass Sizes:

7′11½″ x 6′6″	7′11½″ x 7′	7′11½″ x 7′6″	7′11½″ x 8′
9⅜″ x 19¼″	9⅜″ x 21¼″	9⅜″ x 23¼″	9⅜″ x 25¼″

Note—Four section, six panel doors, standard sizes, 1⅜″ and 1¾″, furnished on order with hardware as described below. When desired, specify **2711 TS.**

Hardware

Hinges—Specially designed, size 7⅞″ x 2⅝″, made of heavy wrought steel, bolted through the door. Japanned finish.

Rollers—Three-piece construction, formed together with one-piece tire. Fitted with extra large tool steel balls, with hardened steel raceways. Assembly attached permanently to the hinges. Made with a ½″ axial movement to compensate for any possible shrinkage or swelling of door.

Track—Made of 13-gauge wrought steel designed to prevent rollers from slipping out. Vertical track is equipped with heavy brackets, which hold it firmly against the door jambs. Horizontal track is bolted to vertical track and suspended from ceiling by strap hangers and braces.

Spring Balance—Torsion type, mounted on cross header shaft. Thoroughly tested at the factory for each size of door. On 2710 VS, HS-MC and HS-OC types tension springs furnished similar to 2711 comparable types.

Locking Bolt—A heavy cylinder sliding bolt (Cadmium plated to resist rust) engages in a slot in the track. Backset 2″, throw 2⅛″, thickness of bar ¼″. A quarter turn of the outside handle locks the door. Operated from the inside by an automatic spring trip. Furnished complete with a rim cylinder and two keys.

Lifting Strap—Strong steel strap connects bottom of door to spring drums. On 2710 VS, HS-MC and HS-OC types, ⅛″ aircraft cable furnished similar to 2711 comparable types.

Headroom and Jamb Construction

For headroom and sideroom requirements, see page 263. Jambs should extend the height of the door plus the headroom. Good construction for all sizes of doors consists of 2 x 6's. Doors can be readily mounted in frame garages on 2 x 4's with the inside edges flush, without extra construction.

Packing

A complete set is packed in two crates, with instructions for installing. Weights (lbs.):

	Doors	Hardware
7′11½″ x 6′6″	100	115
7′11½″ x 7′	110	120
7′11½″ x 7′6″	115	123
7′11½″ x 8′	120	125

Finish

Door hardware regularly furnished in Japanned finish with locking bolt Cadmium Plated. Track and spring assembly furnished Plain Steel.

Specify Class Number and Size

Furnished in design shown on page 272, open for glass. If desired with all wood panels order should so state.

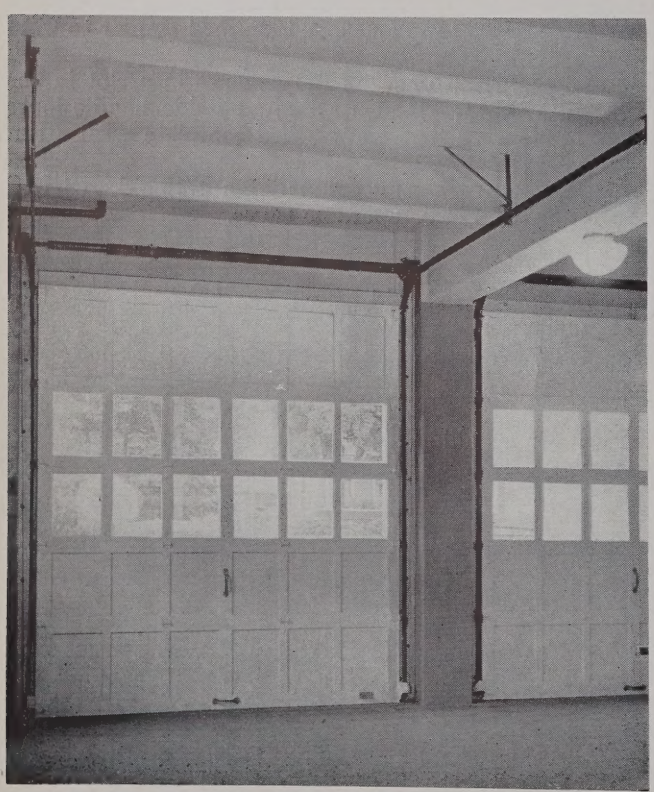
"Roll-Up" Doors

2711½ Tension Spring
2715 Torsion Spring

For Commercial Buildings and Service Stations

Showing a battery of "Roll-Up" Doors, size 10′ x 11′. The doors are attractive in appearance. Smooth, easy operation is assured under all conditions. When open, the doors are completely inside the building.

Special size doors to meet any requirement furnished on order.



"Roll-Up" Door (2715 Type), size 9′ 8″ x 10′ 9″

A service door permits easy passage in or out without operating the entire door.

Furnished with a spring air-check for closing the door.

"Roll-Up" Doors

2711½ Tension Spring
2715 Torsion Spring

Specifications

Doors

Doors up to and including 196 square feet in area, 1¾″ in thickness, can be furnished in any design. Below are stock sizes. Special sizes and other thicknesses on order.

Design (See page 259)	Width	Height	Number of Sections	Weight (Lbs.) Doors	Hardware 2711½	Hardware 2715	Number and Size of Lights
C6	8′	8′	4	155	185	265	6–12⅜″ x 19⅜″
C6D6	8′	9′	4	160	190	270	6–12⅜″ x 22⅜″ (C) 6–12⅜″ x 20⅜″ (D)
D6E6	8′	10′	5	190	195	285	6–12⅜″ x 19⅜″ (D) 6–12⅜″ x 17⅜″ (E)
D6	9′	8′	4	160	185	265	6–14⅜″ x 17⅜″
C6D6	9′	9′	4	175	195	295	6–14⅜″ x 22⅜″ (C) 6–14⅜″ x 20⅜″ (D)
D6E6	9′	10′	5	210	230	280	6–14⅜″ x 19⅜″ (D) 6–14⅜″ x 17⅜″ (E)
D6	10′	8′	4	195	175	270	6–16⅜″ x 17⅜″
C6D6	10′	9′	4	210	205	290	6–16⅜″ x 22⅜″ (C) 6–16⅜″ x 20⅜″ (D)
D6E6	10′	10′	5	215	235	310	6–16⅜″ x 19⅜″ (D) 6–16⅜″ x 17⅜″ (E)
E6F6	10′	12′	6	260	300	345	6–16⅜″ x 19⅜″ (E) 6–16⅜″ x 17⅜″ (F)
C8D8	12′	9′	4	265	245	350	8–14⅝″ x 22⅜″ (C) 8–14⅝″ x 20⅜″ (D)
D8E8	12′	10′	5	275	300	370	8–14⅝″ x 19⅜″ (D) 8–14⅝″ x 17⅜″ (E)
E8F8	12′	12′	6	340	365	440	8–14⅝″ x 19⅜″ (E) 8–14⅝″ x 17⅜″ (F)
E8F8G8	12′	14′	7	358	430	460	16–14⅝″ x 19⅜″(E-F) 8–14⅝″ x 17⅜″ (G)
F10G10	13′	13′	7	360	435	465	10–12½″ x 17⅝″ (F) 10–12½″ x 15⅝″ (G)
D10	14′	7′	4	260	225	330	10–13¾″ x 14⅜″

Made with No. 1 pine stiles and rails (except large built-to-order doors which are of Sitka spruce), doweled and assembled with waterproof casein glue. Panels are three-ply fir veneer, with the center ply grain running opposite from the outside plies. Carefully sanded, free from knots and can be made to match any style of architecture. Regularly furnished unpainted and unglazed, but can be furnished with a priming coat and glazed at the factory when desired. Holes and mortises are made at the factory insuring that they will be accurately located and to save time in the field.

Hardware

Hinges—Specially designed, size 7⅞″ x 2⅝″, made of heavy wrought steel, bolted through the door. Japanned finish.

Rollers—Graduated cam rollers are used on each section. Fitted with extra large tool steel balls, with hardened steel raceways. Assembly attached permanently to the hinges. Made with a ½″ axial movement to compensate for any possible shrinkage or swelling of the door.

Track—Made of 13-gauge wrought steel, designed to prevent rollers from slipping out. Vertical track is equipped with heavy brackets which hold it firmly against the door jambs. Horizontal track is bolted to vertical track and suspended from the ceiling by angle hangers and braces. Japanned finish.

Springs—**2711½.** Heavy heat-treated and oil-tempered tension springs, arranged either along vertical tracks or overhead along horizontal tracks.

2715. Heavy heat-treated and oil-tempered torsion springs, acting on a shaft which extends the entire width of the door.

Both types thoroughly tested at the factory for the door with which they are to be used.

Locking Bolt—A cylinder sliding bolt (Cadmium plated to resist rust) engages in a slot in the track. Backset 2″, throw 2⅛″, thickness of bar ¼″. A quarter turn of the outside handle locks the door. Operated from the inside by an automatic spring trip. Furnished complete with a standard rim cylinder and two keys.

Aircraft Cable—3/16″ in diameter, 7 strands of 19 wires each, test 3,200 lbs. Tinned to resist rust.

Door Braces—Used on each door section of all sizes 12′ wide or over, to prevent sagging and to strengthen the door.

Headroom and Jamb Construction

For headroom and sideroom requirements, see page 263.

Jambs for all doors should extend the height of the door plus the headroom. Good construction for all sizes of doors consists of 2 x 6's.

Finish and Packing

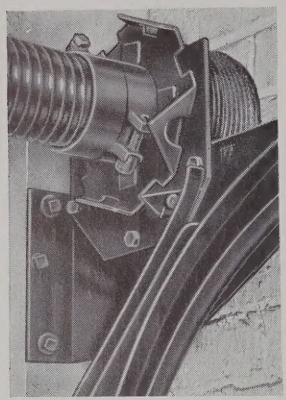
Hardware, including track assembly, regularly furnished in Japanned finish, with locking bolt Cadmium Plated. A complete set is packed in two crates, with instructions for installing.

Specify Class Number, Size of Opening, Door Design (see page 259) and Jamb Construction (Wood or Metal)

"Roll-Up" Doors

2711½, 2715 Special Features

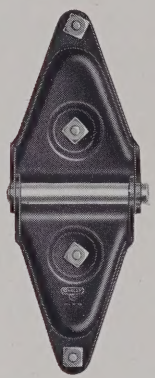
Torsion Spring 2715



A heavy torsion spring acts on a steel shaft extending the entire width of the door. At either end of the shaft is a spirally grooved drum connected to bottom of door with flexible steel cables, which wind or unwind as the door is operated. The tension on the cables is always equal. One of the cables alone will prevent the door from falling—a great factor of safety.

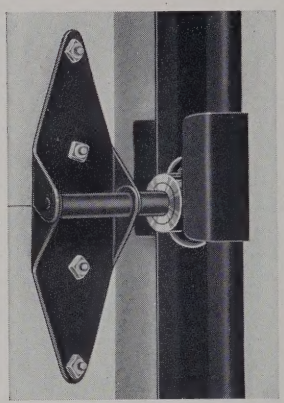
The spring is wound at installation to the exact tension required to counterbalance the weight of the door.

Corrugated Center Hinge



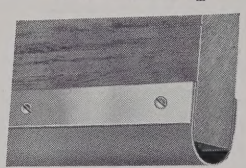
Doors over 140 square feet are furnished with all hinges corrugated which greatly increases their strength.

Roller Hinge with Cam—In Track Bracket



Track brackets are spaced on vertical tracks, one for each section of door. They engage with graduated cam rollers, forcing each section tightly against jambs or stops, insuring a weather-tite installation.

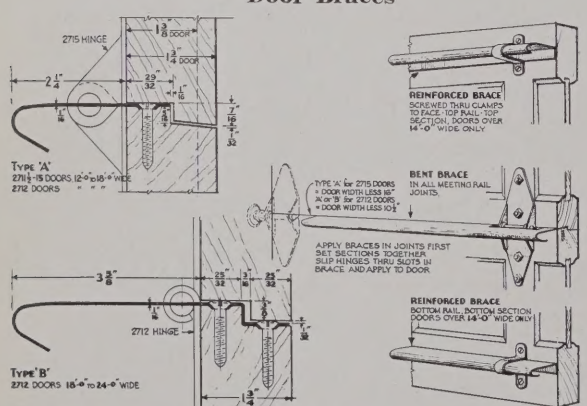
Weatherstrip



Attached to door with metal strips

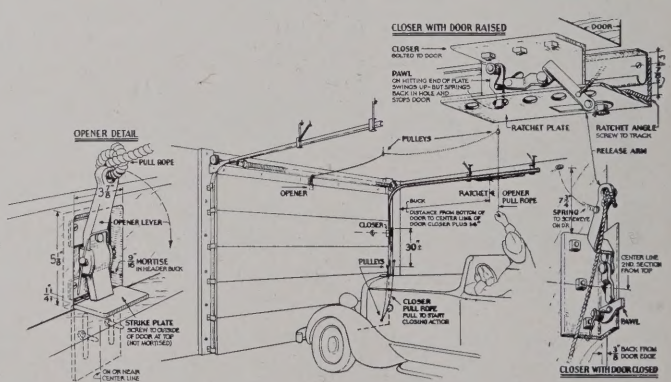
A rubber weatherstrip is furnished on order. The rubber is flexible and, when door is closed, affords a weather-tite installation.

Door Braces



Doors 12′ wide or more are furnished with sturdy braces across the entire width of the door. Applied in the rabbet between the sections. On doors 14′ wide or more, additional braces are furnished applied on the face of the top and bottom rails. The braces strengthen the door and prevent sagging.

Automatic Releasing Device for Fire Stations

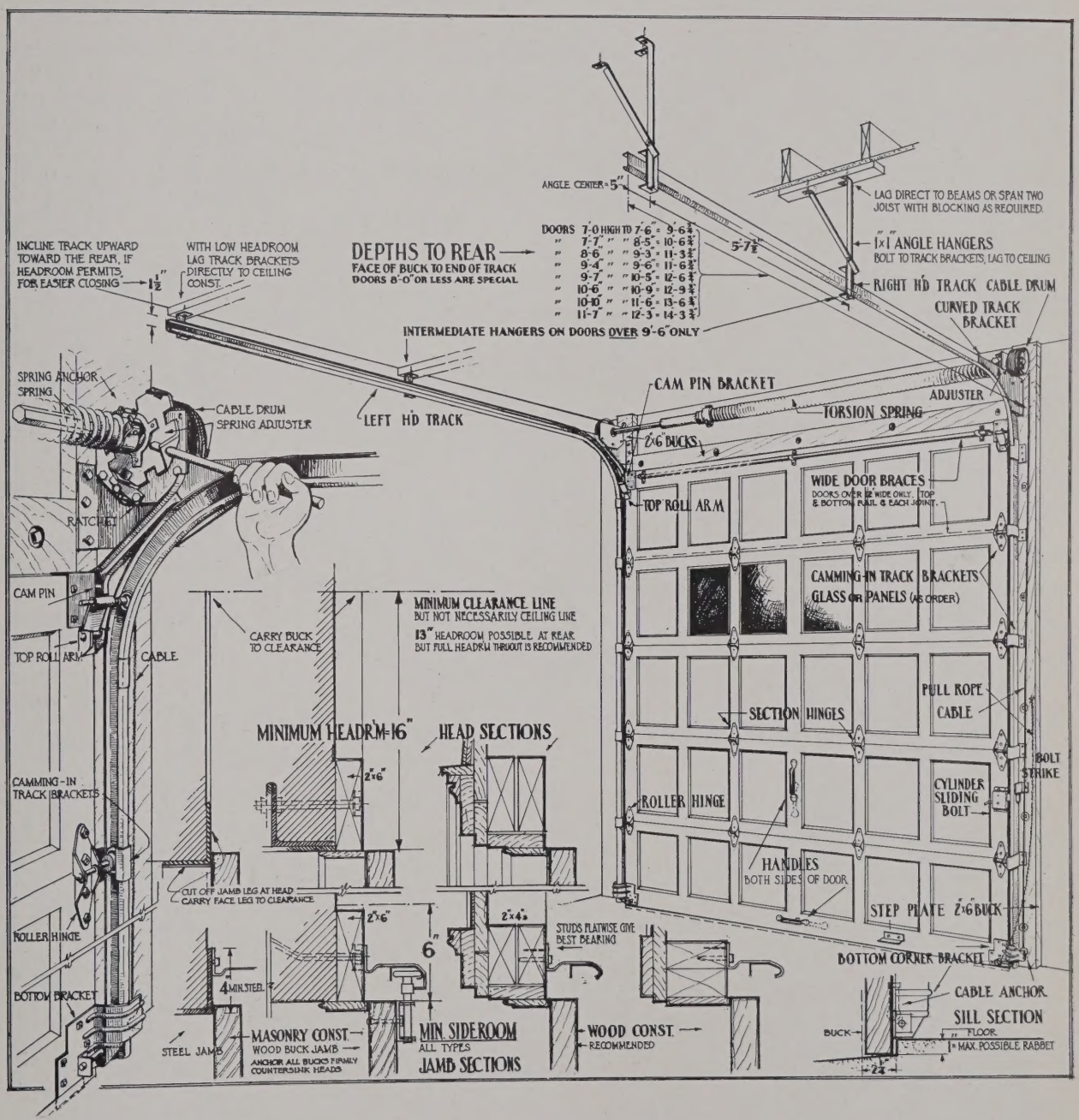


The spring is wound to greater tension than required to balance the door, so that when rope is pulled (over driver's seat) the opener is released and the door opens automatically. The closing device, catching the door at the end of its extreme travel, provides a starting "kick" which permits the door to be closed without undue effort. Furnished on order.

"Roll-Up" Doors

2715

Details

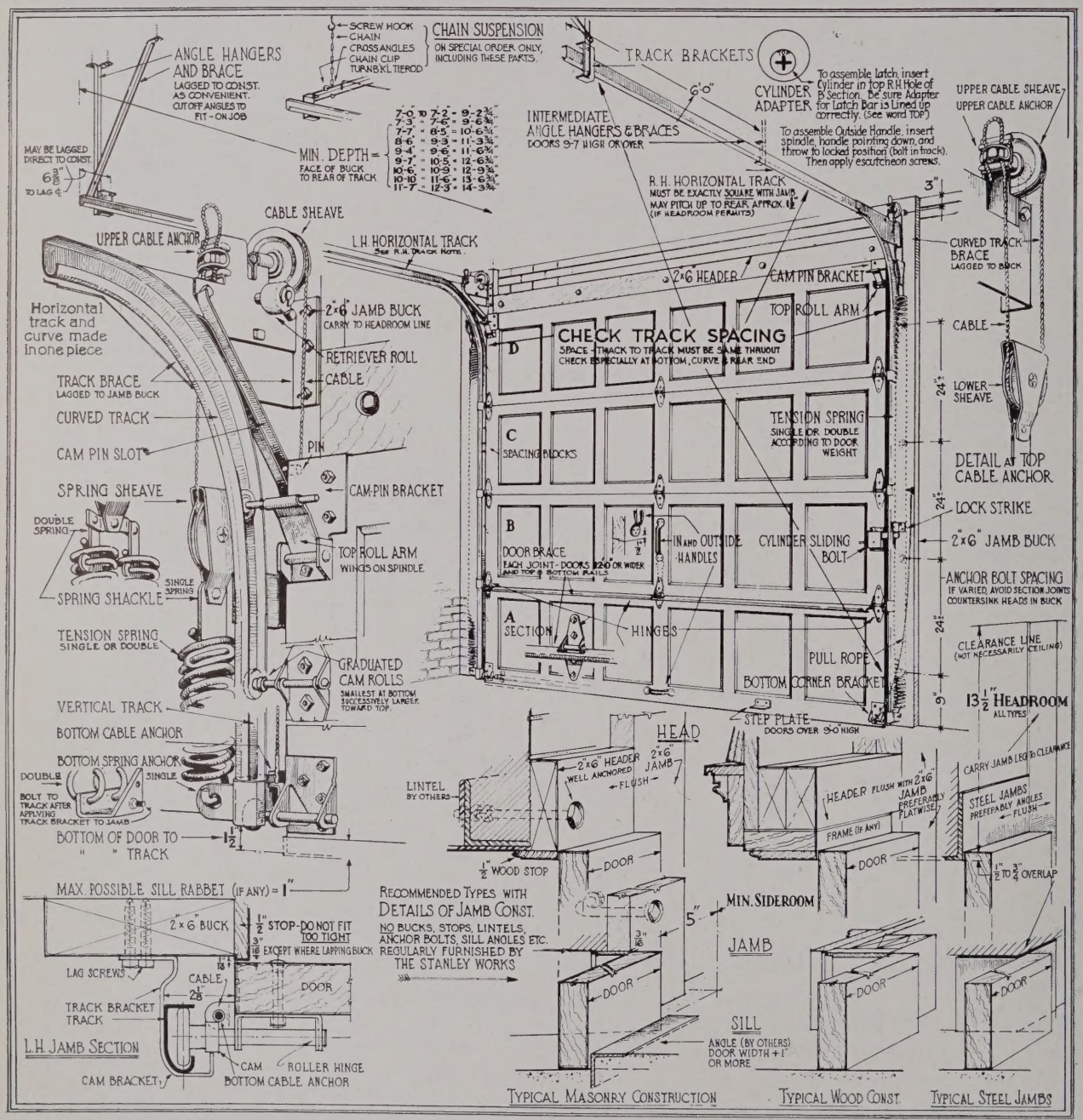


Where above conditions are not available, it is possible by placing the spring assembly at the rear of the horizontal tracks to apply the vertical tracks on a mullion only 7″ wide, with 3½″ sideroom and 13″ headroom at front and 14″ at rear. For such conditions, specify **2715 RS.** Headroom depth increases 8½″.

"Roll-Up" Doors

2711½

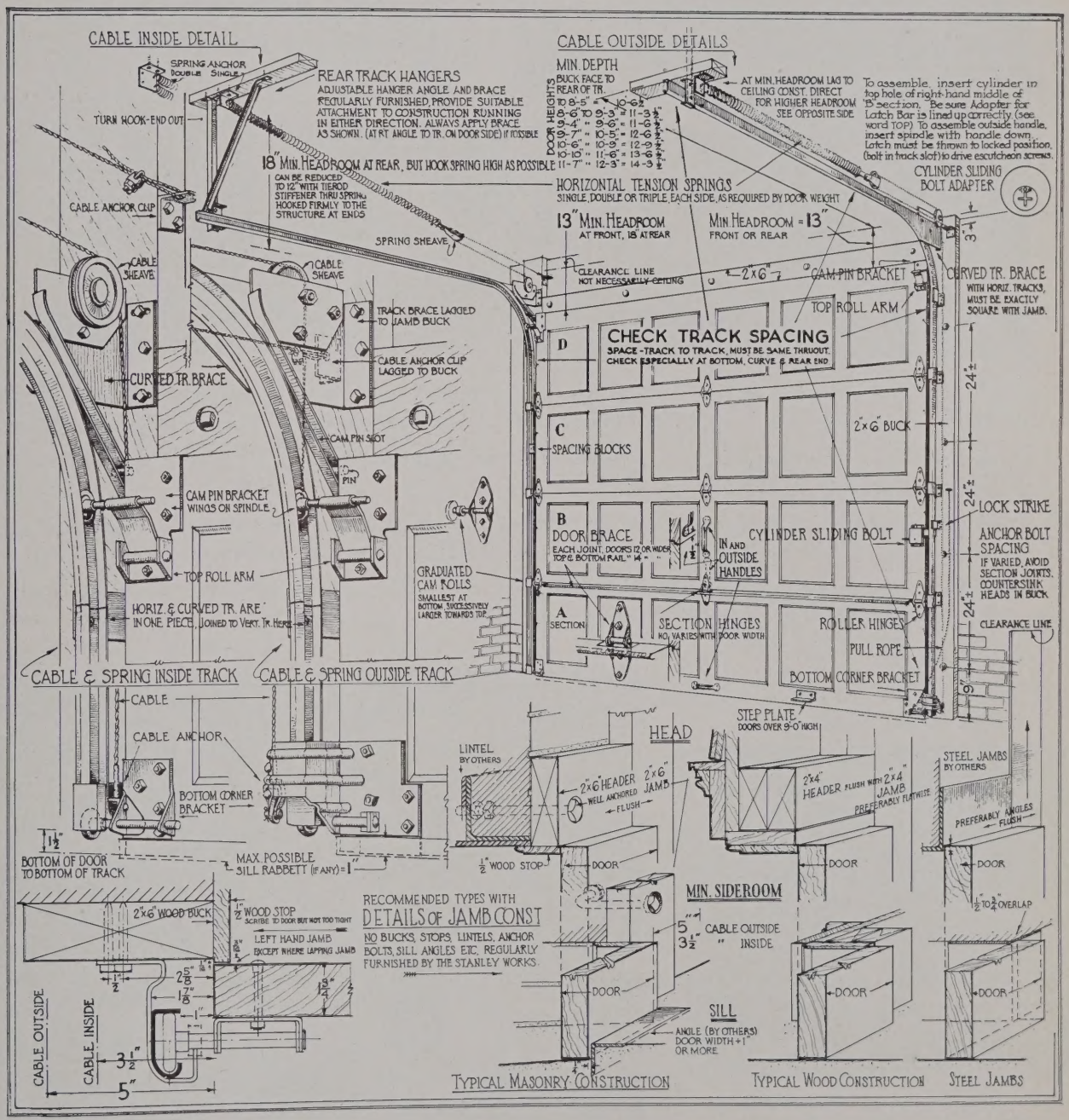
Details



"Roll-Up" Doors

2711½ HM
2711½ HO

Details


CABLE INSIDE DETAIL
SPRING ANCHOR DOUBLE SINGLE
REAR TRACK HANGERS
ADJUSTABLE HANGER ANGLE AND BRACE REGULARLY FURNISHED, PROVIDE SUITABLE ATTACHMENT TO CONSTRUCTION RUNNING IN EITHER DIRECTION. ALWAYS APPLY BRACE AS SHOWN. (AT RT. ANGLE TO TR. ON DOOR SIDE) IF POSSIBLE
TURN HOOK-END OUT
18" MIN. HEADROOM AT REAR, BUT HOOK SPRING HIGH AS POSSIBLE
CAN BE REDUCED TO 12" WITH TIEROD STIFFENER THRU SPRING, HOOKED FIRMLY TO THE STRUCTURE AT ENDS
CABLE ANCHOR CLIP
CABLE SHEAVE
SPRING SHEAVE
CABLE SHEAVE
TRACK BRACE LAGGED TO JAMB BUCK
CABLE ANCHOR CLIP LAGGED TO BUCK
CURVED TR. BRACE
CAM PIN SLOT
PIN
CAM PIN BRACKET WINGS ON SPINDLE
TOP ROLL ARM
HORIZ. & CURVED TR. ARE IN ONE PIECE, JOINED TO VERT. TR. HERE
GRADUATED CAM ROLLS
SMALLEST AT BOTTOM, SUCCESSIVELY LARGER TOWARDS TOP
CABLE & SPRING INSIDE TRACK
CABLE & SPRING OUTSIDE TRACK
CABLE
CABLE ANCHOR
BOTTOM CORNER BRACKET
1½"
BOTTOM OF DOOR TO BOTTOM OF TRACK
MAX. POSSIBLE SILL RABBETT (IF ANY) = 1"
2"x6" WOOD BUCK
½" WOOD STOP SCRIBE TO DOOR BUT NOT TOO TIGHT
LEFT HAND JAMB EXCEPT WHERE LAPPING JAMB
2⅝"
1⅞"
1½"
¾"
1"
CABLE OUTSIDE
CABLE INSIDE
3½"
5"
CABLE OUTSIDE DETAILS
MIN. DEPTH BUCK FACE TO REAR OF TR.
DOOR HEIGHTS
TO 8-5" = 10-6½
8-6" TO 9-3" = 11-3½"
9-4" " 9-6" = 11-6½"
9-7" " 10-5" = 12-6½"
10-6" " 10-9" = 12-9½"
10-10" " 11-6" = 13-6½"
11-7" " 12-3" = 14-3½"
AT MIN. HEADROOM LAG TO CEILING CONST. DIRECT FOR HIGHER HEADROOM SEE OPPOSITE SIDE
To assemble, insert cylinder in top hole of right-hand middle of "B" section. Be sure Adapter for Latch Bar is lined up correctly (see word TOP) To assemble outside handle, insert spindle with handle down. Latch must be thrown to locked position, (bolt in track slot) to drive escutcheon screws.
CYLINDER SLIDING BOLT ADAPTER
HORIZONTAL TENSION SPRINGS
SINGLE, DOUBLE OR TRIPLE, EACH SIDE, AS REQUIRED BY DOOR WEIGHT
13" MIN. HEADROOM AT FRONT, 18 AT REAR
MIN. HEADROOM = 13" FRONT OR REAR
CLEARANCE LINE NOT NECESSARILY CEILING
2"x6"
CAM PIN BRACKET
CURVED TR. BRACE WITH HORIZ. TRACKS, MUST BE EXACTLY SQUARE WITH JAMB.
TOP ROLL ARM
D
CHECK TRACK SPACING
SPACE - TRACK TO TRACK, MUST BE SAME THRUOUT. CHECK ESPECIALLY AT BOTTOM, CURVE & REAR END
C
SPACING BLOCKS
2"x6" BUCK
B
DOOR BRACE
EACH JOINT, DOORS 12 OR WIDER TOP & BOTTOM RAIL" 1¼" "
CYLINDER SLIDING BOLT
IN AND OUTSIDE HANDLES
LOCK STRIKE
ANCHOR BOLT SPACING IF VARIED, AVOID SECTION JOINTS. COUNTERSINK HEADS IN BUCK
A
SECTION
SECTION HINGES NO. VARIES WITH DOOR WIDTH
ROLLER HINGES
PULL ROPE
BOTTOM CORNER BRACKET
CLEARANCE LINE
24½"
24½"
24½"
9"
3½"
HEAD
LINTEL BY OTHERS
2"x6" HEADER WELL ANCHORED FLUSH
2"x6" JAMB
½" WOOD STOP
DOOR
STEP PLATE DOORS OVER 9'-0" HIGH
2"x4" HEADER FLUSH WITH 2"x4" JAMB PREFERABLY FLATWISE
STEEL JAMBS BY OTHERS
PREFERABLY ANGLES FLUSH
½" TO ¾" OVERLAP
MIN. SIDEROOM
5" CABLE OUTSIDE
3½" " INSIDE
SILL
ANGLE (BY OTHERS) DOOR WIDTH +1" OR MORE
RECOMMENDED TYPES WITH DETAILS OF JAMB CONST
NO BUCKS, STOPS, LINTELS, ANCHOR BOLTS, SILL ANGLES ETC. REGULARLY FURNISHED BY THE STANLEY WORKS
TYPICAL MASONRY CONSTRUCTION
TYPICAL WOOD CONSTRUCTION
STEEL JAMBS

"Roll-Up" Doors

2715 HL (High-Lift)

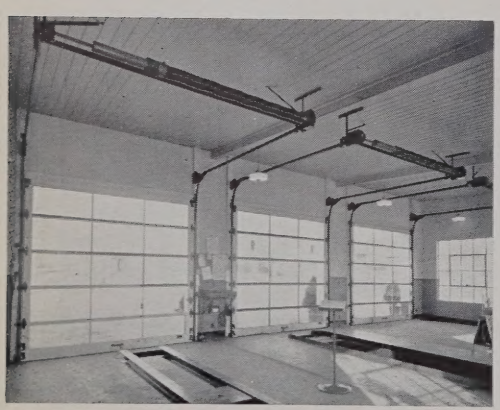
For Service Stations

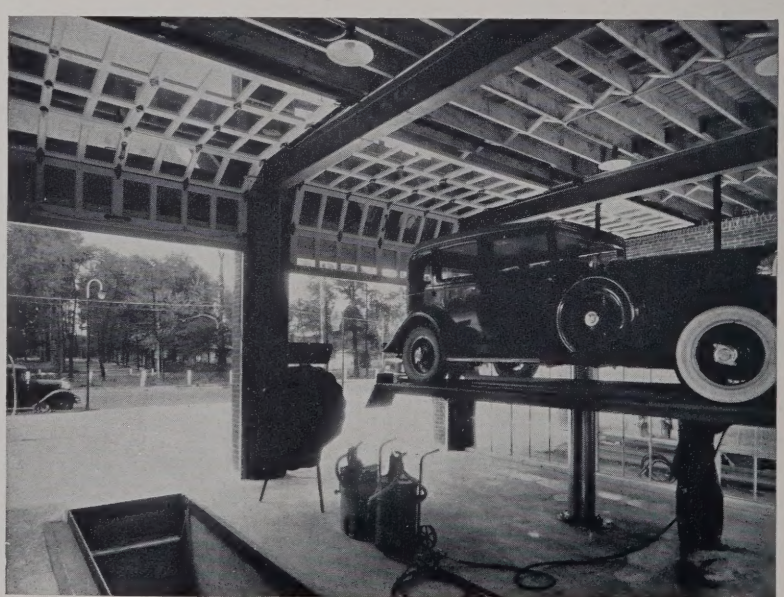
"High-Lift" doors are for service stations where hydraulic lifts are used to raise cars for greasing or repairs. Doors travel higher vertically than standard doors, allowing ample clearance for operation of the lift.

Torsion springs insure smooth, easy operation of doors. On doors over 9′ high, torsion spring unit is placed at rear of track.

The doors shown are almost entirely glass, creating not only an attractive appearance, but also admitting a maximum amount of light. Easily installed without the necessity of trained factory men.

Hardware is the same as described under 2715. In addition to other information required, specify distance from finished floor line to lowest overhead clearance line.



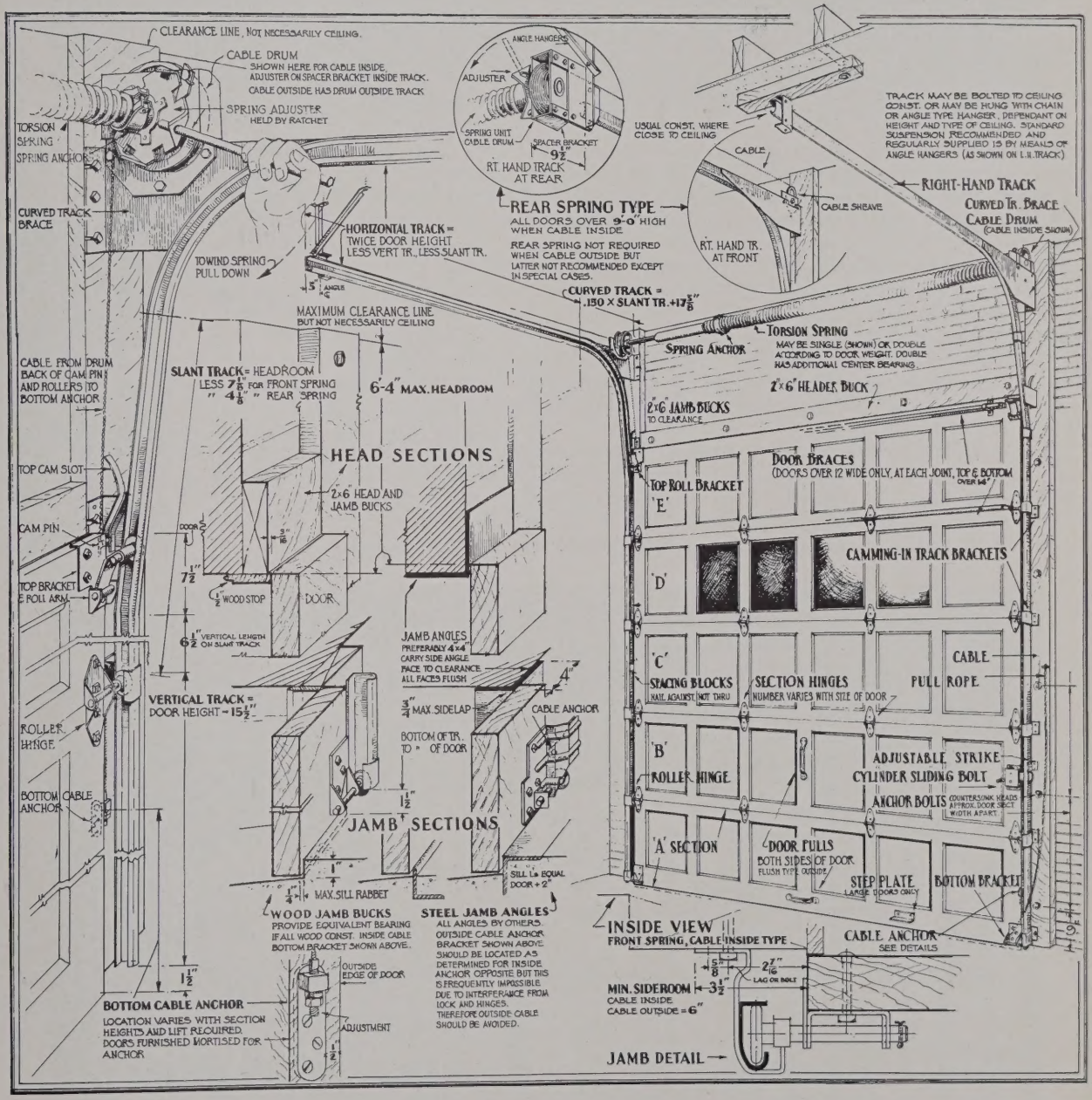


"Roll-Up" Doors

2715 HL (High-Lift)

For Service Stations

Details


CLEARANCE LINE, NOT NECESSARILY CEILING.
CABLE DRUM
SHOWN HERE FOR CABLE INSIDE. ADJUSTER ON SPACER BRACKET INSIDE TRACK. CABLE OUTSIDE HAS DRUM OUTSIDE TRACK
SPRING ADJUSTER HELD BY RATCHET
TORSION SPRING
SPRING ANCHOR
CURVED TRACK BRACE
TOWIND SPRING PULL DOWN
ANGLE HANGERS
ADJUSTER
SPRING UNIT CABLE DRUM
SPACER BRACKET
RT. HAND TRACK AT REAR
USUAL CONST. WHERE CLOSE TO CEILING
TRACK MAY BE BOLTED TO CEILING CONST. OR MAY BE HUNG WITH CHAIN OR ANGLE TYPE HANGER, DEPENDANT ON HEIGHT AND TYPE OF CEILING. STANDARD SUSPENSION RECOMMENDED AND REGULARLY SUPPLIED IS BY MEANS OF ANGLE HANGERS (AS SHOWN ON L.H. TRACK)
CABLE
CABLE SHEAVE
RT. HAND TR. AT FRONT
RIGHT-HAND TRACK
CURVED TR. BRACE
CABLE DRUM (CABLE INSIDE SHOWN)
REAR SPRING TYPE
ALL DOORS OVER 9'-0" HIGH WHEN CABLE INSIDE
REAR SPRING NOT REQUIRED WHEN CABLE OUTSIDE BUT LATTER NOT RECOMMENDED EXCEPT IN SPECIAL CASES.
HORIZONTAL TRACK = TWICE DOOR HEIGHT LESS VERT TR., LESS SLANT TR.
CURVED TRACK = .130 X SLANT TR. +17 5/8"
MAXIMUM CLEARANCE LINE BUT NOT NECESSARILY CEILING
TORSION SPRING
MAY BE SINGLE (SHOWN) OR DOUBLE ACCORDING TO DOOR WEIGHT. DOUBLE HAS ADDITIONAL CENTER BEARING.
SPRING ANCHOR
2"x6" HEADER BUCK
2"x6" JAMB BUCKS TO CLEARANCE
CABLE FROM DRUM BACK OF CAM PIN AND ROLLERS TO BOTTOM ANCHOR
SLANT TRACK = HEADROOM LESS 7 1/8" FOR FRONT SPRING, 4 1/8" REAR SPRING
6'-4" MAX. HEADROOM
HEAD SECTIONS
2"x6" HEAD AND JAMB BUCKS
DOOR BRACES
(DOORS OVER 12' WIDE ONLY, AT EACH JOINT, TOP & BOTTOM OVER 14')
TOP ROLL BRACKET
'E'
TOP CAM SLOT
CAM PIN
'D'
CAMMING-IN TRACK BRACKETS
TOP BRACKET & ROLL ARM
7 1/2"
1/2" WOOD STOP
DOOR
6 1/2" VERTICAL LENGTH ON SLANT TRACK
JAMB ANGLES
PREFERABLY 4"x4" CARRY SIDE ANGLE FACE TO CLEARANCE. ALL FACES FLUSH
'C'
CABLE
PULL ROPE
SPACING BLOCKS
NAIL AGAINST, NOT THRU
SECTION HINGES
NUMBER VARIES WITH SIZE OF DOOR
VERTICAL TRACK = DOOR HEIGHT - 15 1/2"
3/4" MAX. SIDELAP
4"
CABLE ANCHOR
BOTTOM OF TR. TO ½ OF DOOR
ROLLER HINGE
'B'
ROLLER HINGE
ADJUSTABLE STRIKE
CYLINDER SLIDING BOLT
ANCHOR BOLTS
COUNTERSUNK HEADS APPROX. DOOR SECT. WIDTH APART
BOTTOM CABLE ANCHOR
1 1/2"
JAMB SECTIONS
'A' SECTION
DOOR PULLS
BOTH SIDES OF DOOR FLUSH TYPE OUTSIDE
STEP PLATE
LARGE DOORS ONLY
BOTTOM BRACKET
1"
SILL = EQUAL DOOR + 2"
1/4" MAX. SILL RABBET
WOOD JAMB BUCKS
PROVIDE EQUIVALENT BEARING IF ALL WOOD CONST. INSIDE CABLE BOTTOM BRACKET SHOWN ABOVE.
STEEL JAMB ANGLES
ALL ANGLES BY OTHERS. OUTSIDE CABLE ANCHOR BRACKET SHOWN ABOVE SHOULD BE LOCATED AS DETERMINED FOR INSIDE ANCHOR OPPOSITE BUT THIS IS FREQUENTLY IMPOSSIBLE DUE TO INTERFERANCE FROM LOCK AND HINGES. THEREFORE OUTSIDE CABLE SHOULD BE AVOIDED.
OUTSIDE EDGE OF DOOR
ADJUSTMENT
1 1/2"
BOTTOM CABLE ANCHOR
LOCATION VARIES WITH SECTION HEIGHTS AND LIFT REQUIRED. DOORS FURNISHED MORTISED FOR ANCHOR
INSIDE VIEW
FRONT SPRING, CABLE INSIDE TYPE
CABLE ANCHOR
SEE DETAILS
5/8"
2 7/16"
LAG OR BOLT
MIN. SIDEROOM = 3 1/2"
CABLE INSIDE
CABLE OUTSIDE = 6"
JAMB DETAIL

"Roll-Up" Doors

2715 RS-MP (Movable Post)

For Service Stations, Commercial Buildings, Etc.

Stanley "Roll-Up" Doors with movable center posts are especially recommended for service stations, commercial garages, warehouses, terminals, markets, etc., where individual openings are desired, which can at a moment's notice be combined into a single large, unobstructed opening. Heat can be conserved during the cold weather, as only one door need be in use, except for large trucks requiring the entire opening. When weather permits, the full opening without posts can be utilized, providing not only increased efficiency, but also additional natural light and ventilation.

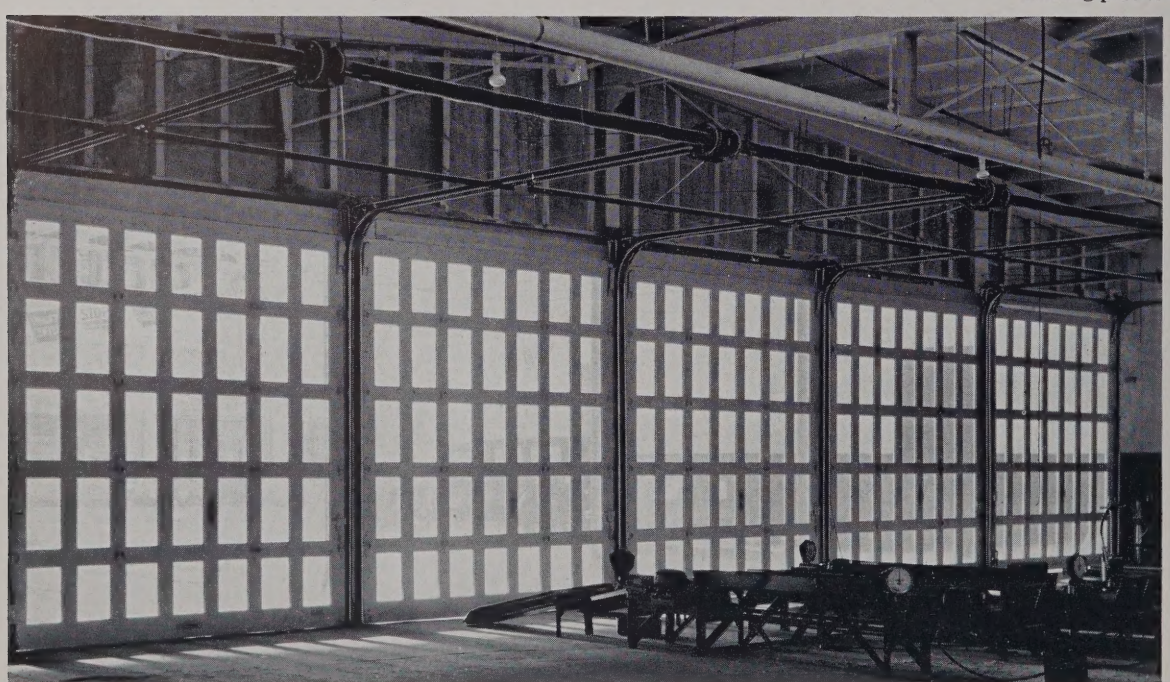
The movable post consists of a vertical member running the full height of the opening, on which is anchored the two vertical tracks between a pair of doors. It is arranged so that it can be rolled to one side on a ball bearing hanger attached to the top of the post. Several posts can be used, making possible a much wider opening than with stationary posts. The post rests beyond the edge of the jamb, allowing the full width of the opening. The track in which the hanger rolls is applied on the inside of the header.

The post is furnished with a special locking device, which locks it securely in place both when doors are closed and when the post is at the jamb. A safety catch automatically locks the doors in the open position while the post is at the side.

A built-in pass door can be had on order for buildings without a service door.

Other hardware is the same as described under 2715.

Moving post to side

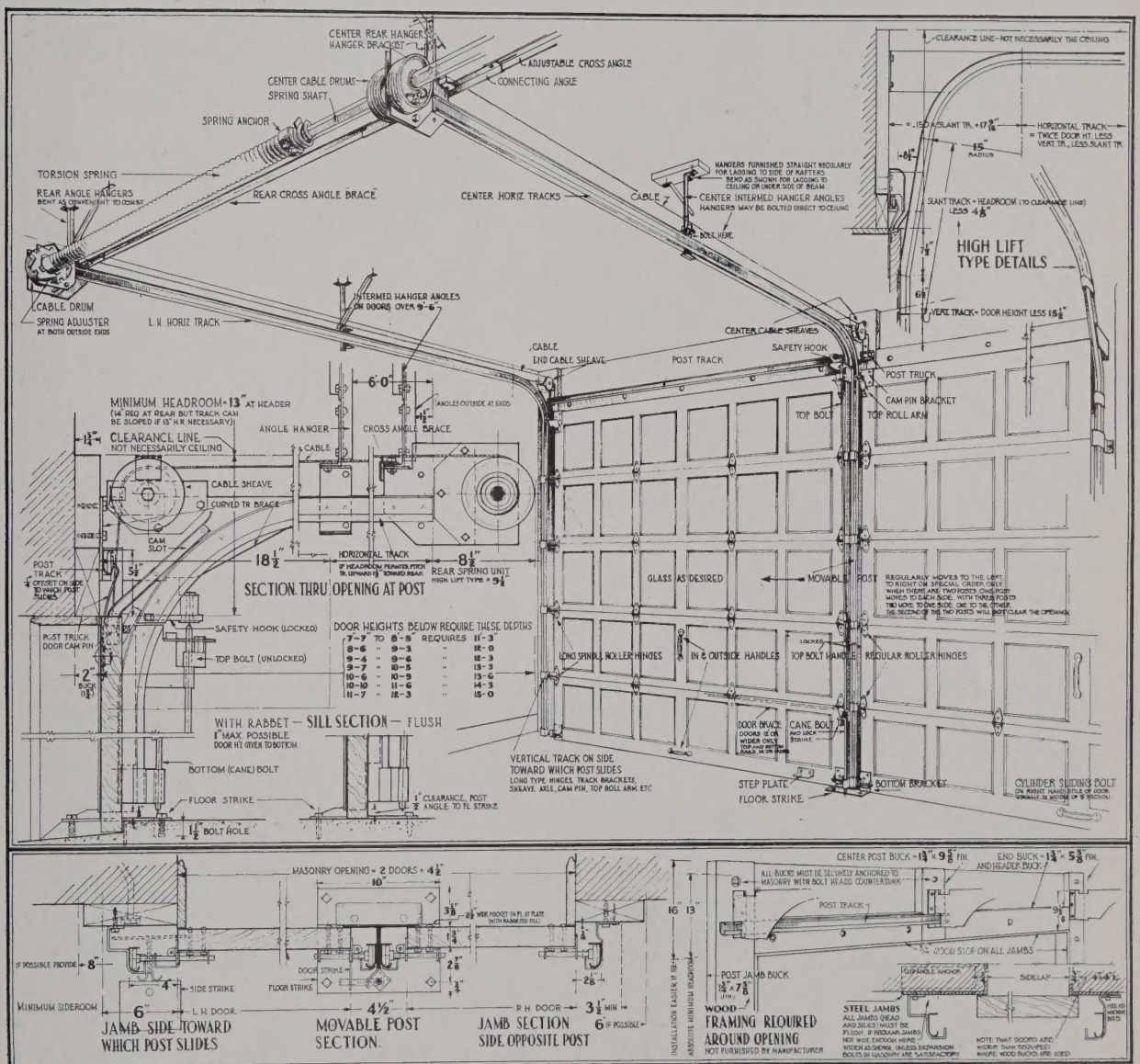


Inside View—Movable post

"Roll-Up" Doors

2715 RS-MP (Movable Post)

Details


CENTER REAR HANGER HANGER BRACKET
ADJUSTABLE CROSS ANGLE
CONNECTING ANGLE
CENTER CABLE DRUMS SPRING SHAFT
SPRING ANCHOR
TORSION SPRING
REAR ANGLE HANGERS BENT AS CONVENIENT TO CONST
REAR CROSS ANGLE BRACE
CENTER HORIZ. TRACKS
CABLE
HANGERS FURNISHED STRAIGHT REGULARLY FOR LAGGING TO SIDE OF RAFTERS BEND AS SHOWN FOR LAGGING TO CEILING OR UNDER SIDE OF BEAM
CENTER INTERMED. HANGER ANGLES HANGERS MAY BE BOLTED DIRECT TO CEILING
BOLT HERE
CLEARANCE LINE - NOT NECESSARILY THE CEILING
HORIZONTAL TRACK = TWICE DOOR HT. LESS VERT. TR., LESS SLANT TR.
SLANT TRACK = HEADROOM (TO CLEARANCE LINE) LESS 4⅛"
HIGH LIFT TYPE DETAILS
VERT. TRACK = DOOR HEIGHT LESS 15½"
CABLE DRUM
SPRING ADJUSTER AT BOTH OUTSIDE ENDS
L.H. HORIZ. TRACK
INTERMED. HANGER ANGLES ON DOORS OVER 9'-6"
CENTER CABLE SHEAVES
CABLE END CABLE SHEAVE
POST TRACK
SAFETY HOOK
POST TRUCK
CAM PIN BRACKET
TOP ROLL ARM
TOP BOLT
MINIMUM HEADROOM = 13" AT HEADER (14" REQ. AT REAR BUT TRACK CAN BE SLOPED IF 13" H.R. NECESSARY)
CLEARANCE LINE NOT NECESSARILY CEILING
ANGLE HANGER
CROSS ANGLE BRACE
ANGLES OUTSIDE AT ENDS
CABLE SHEAVE
CURVED TR. BRACE
CAM SLOT
POST TRACK 4" OFFSET ON SIDE TO WHICH POST SLIDES
18½"
HORIZONTAL TRACK
8½"
REAR SPRING UNIT
HIGH LIFT TYPE = 9½"
SECTION THRU OPENING AT POST
GLASS AS DESIRED
MOVABLE POST
REGULARLY MOVES TO THE LEFT TO RIGHT ON SPECIAL ORDER ONLY WHEN THERE ARE TWO POSTS ONE POST MOVES TO EACH SIDE WITH THREE POSTS TWO MOVE TO ONE SIDE ONE TO THE OTHER THE SECOND OF THE TWO POSTS WILL NOT CLEAR THE OPENING
POST TRUCK DOOR CAM PIN
SAFETY HOOK (LOCKED)
TOP BOLT (UNLOCKED)
2" BUCK (1½")
DOOR HEIGHTS BELOW REQUIRE THESE DEPTHS
7'-7" TO 8'-5" REQUIRES 11"-3"
8'-6" " 9'-3" " 12"-0
9'-4" " 9'-6" " 12"-3
9'-7" " 10'-5" " 13"-3
10'-6" " 10'-9" " 13"-6
10'-10" " 11'-6" " 14"-3
11'-7" " 12'-3" " 15"-0
LONG SPIRAL ROLLER HINGES
IN & OUTSIDE HANDLES
TOP BOLT HANDLE
REGULAR ROLLER HINGES
WITH RABBET — SILL SECTION — FLUSH
1" MAX. POSSIBLE DOOR HT. GIVEN TO BOTTOM
BOTTOM (CANE) BOLT
FLOOR STRIKE
1½" BOLT HOLE
1" CLEARANCE, POST ½" ANGLE, TO FL. STRIKE
VERTICAL TRACK ON SIDE TOWARD WHICH POST SLIDES
LONG TYPE HINGES, TRACK BRACKETS, SHEAVE, AXLE, CAM PIN, TOP ROLL ARM, ETC
DOOR BRACE
CANE BOLT AND LOCK STRIKE
STEP PLATE
FLOOR STRIKE
BOTTOM BRACKET
CYLINDER SLIDING BOLT
MASONRY OPENING = 2 DOORS + 4½"
10"
3½"
2⅛" WIDE POCKET IN FL. PLATE (WITH RABBETED SILL)
IF POSSIBLE PROVIDE 8"
4"
SIDE STRIKE
DOOR STRIKE
FLOOR STRIKE
2⅛"
⅜"
2⅛"
MINIMUM SIDEROOM 6"
L.H. DOOR
4½"
R.H. DOOR
3½" MIN. 6" IF POSSIBLE
JAMB SIDE TOWARD WHICH POST SLIDES
MOVABLE POST SECTION
JAMB SECTION SIDE OPPOSITE POST
16"
13"
INSTALLATION EASIER IF HERE
ABSOLUTE MINIMUM HEADROOM
CENTER POST BUCK = 1¾" × 9⅝" FIN.
END BUCK = 1¾" × 5⅝" FIN. AND HEADER BUCK
ALL BUCKS MUST BE SECURELY ANCHORED TO MASONRY WITH BOLT HEADS COUNTERSUNK
POST TRACK
WOOD STOP ON ALL JAMBS
POST JAMB BUCK
1¾" × 7⅝" (FIN.)
SIDELAP ANCHOR
SIDELAP
WOOD FRAMING REQUIRED AROUND OPENING
NOT FURNISHED BY MANUFACTURER
STEEL JAMBS
ALL JAMBS (HEAD AND SILLS) MUST BE FLUSH. IF REGULAR JAMBS NOT WIDE ENOUGH HERE - WIDEN AS SHOWN, UNLESS EXPANSION BOLTS IN MASONRY ARE SATISFACTORY
NOTE: THAT DOORS ARE WIDER THAN RECOMMENDED WHERE WOOD BUCKS ARE USED

"Roll-Up" Doors

2712 For Extra Large Doors
For Commercial and Industrial Buildings

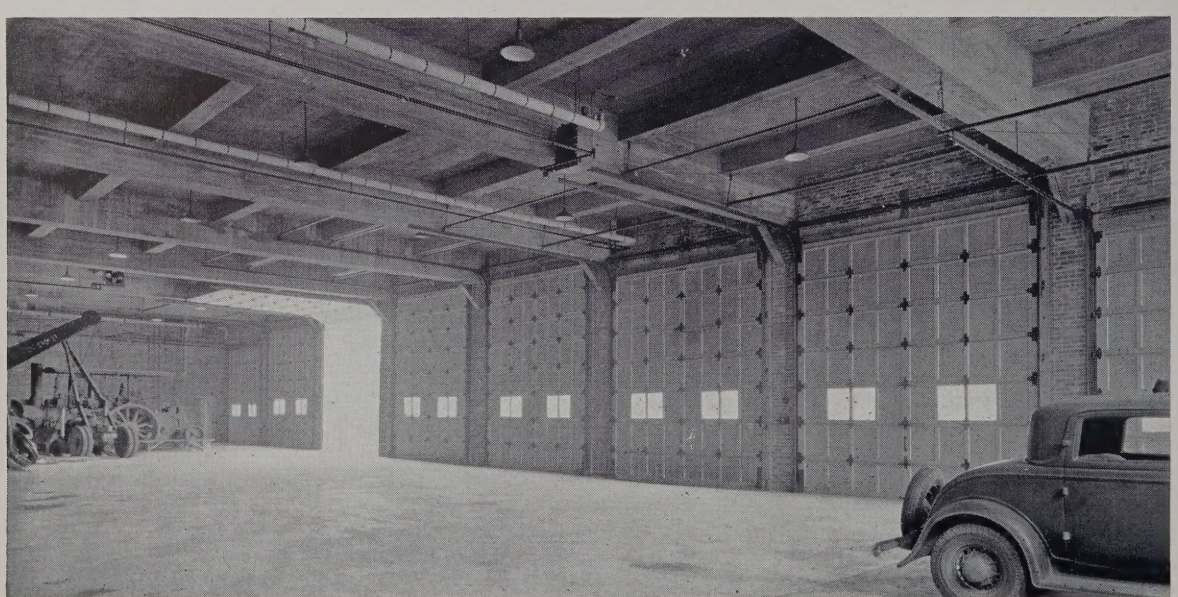
For openings 196 square feet and larger, or for very heavy doors, smaller in area. Furnished with a hand chain operator.

All hardware is extra heavy. Each door section is equipped with a heavy brace which strengthens the door and prevents sagging.

Graduated cam rollers are used on each section. They engage with the track brackets, forcing each section of the door tightly against the jambs, insuring a weather-tite installation.

A minimum headroom of 19½" is required. The headroom should be maintained the full length of the horizontal track, which length equals the height of the door plus 29¾".

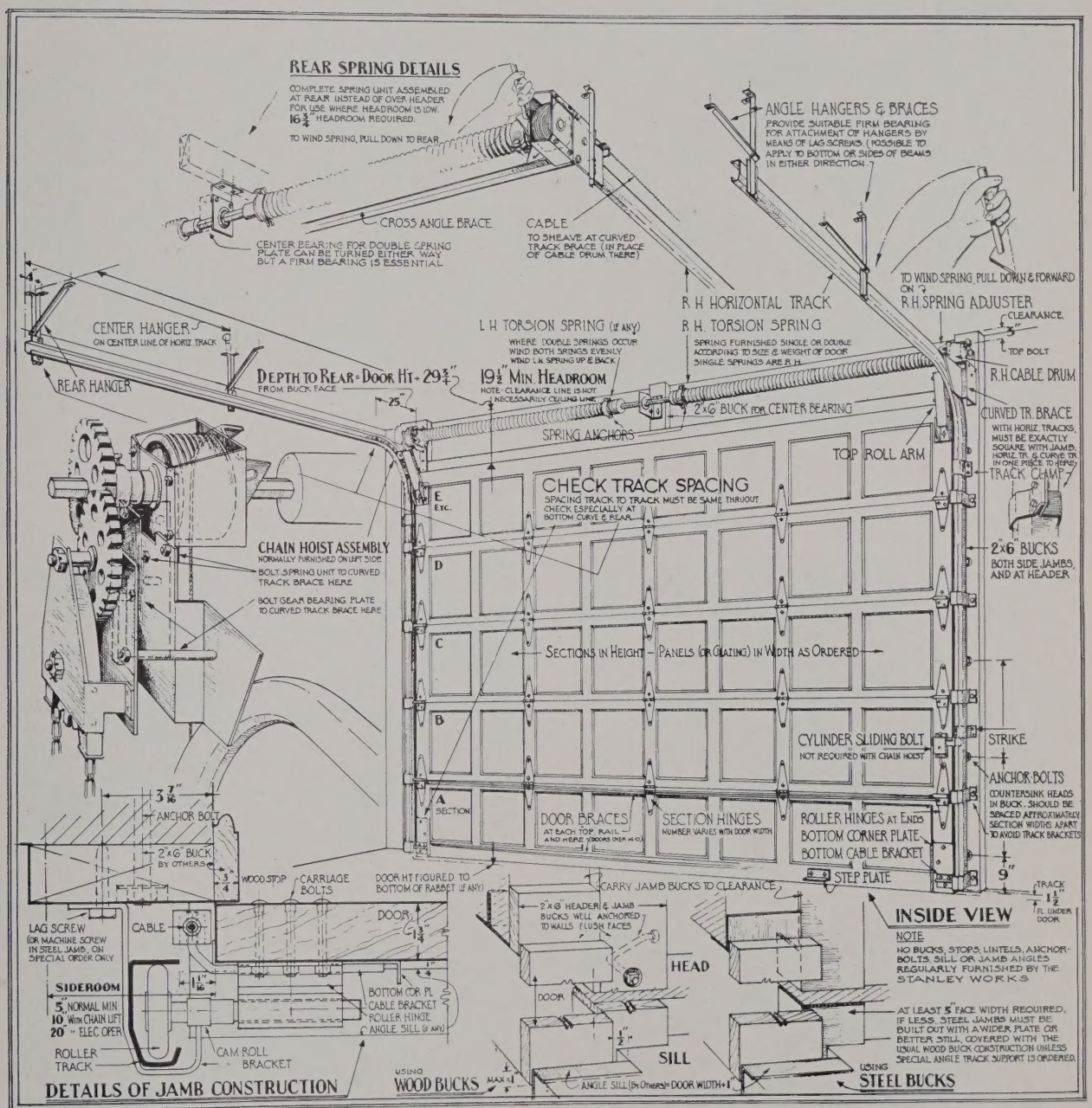
On electrically operated doors, a special auxiliary hand chain operator is obtainable on order, which is disconnected from the equipment but is readily connected in event of power or mechanical failure of the electric operator.



"Roll-Up" Doors

2712

Details


REAR SPRING DETAILS
COMPLETE SPRING UNIT ASSEMBLED AT REAR INSTEAD OF OVER HEADER FOR USE WHERE HEADROOM IS LOW. 16¾" HEADROOM REQUIRED.
TO WIND SPRING, PULL DOWN TO REAR
CROSS ANGLE BRACE
CABLE
TO SHEAVE AT CURVED TRACK BRACE (IN PLACE OF CABLE DRUM THERE)
CENTER BEARING FOR DOUBLE SPRING PLATE CAN BE TURNED EITHER WAY BUT A FIRM BEARING IS ESSENTIAL
ANGLE HANGERS & BRACES
PROVIDE SUITABLE FIRM BEARING FOR ATTACHMENT OF HANGERS BY MEANS OF LAG SCREWS. (POSSIBLE TO APPLY TO BOTTOM OR SIDES OF BEAMS IN EITHER DIRECTION.)
TO WIND SPRING, PULL DOWN & FORWARD ON
R.H. SPRING ADJUSTER
CLEARANCE
TOP BOLT
R.H. CABLE DRUM
CENTER HANGER
ON CENTER LINE OF HORIZ. TRACK
REAR HANGER
L.H. TORSION SPRING (IF ANY)
WHERE DOUBLE SPRINGS OCCUR WIND BOTH SPRINGS EVENLY WIND L.H. SPRING UP & BACK
R.H. HORIZONTAL TRACK
R.H. TORSION SPRING
SPRING FURNISHED SINGLE OR DOUBLE ACCORDING TO SIZE & WEIGHT OF DOOR. SINGLE SPRINGS ARE R.H.
DEPTH TO REAR = DOOR HT. + 29¾"
FROM BUCK FACE
19½" MIN. HEADROOM
NOTE - CLEARANCE LINE IS NOT NECESSARILY CEILING LINE
25"
2"x6" BUCK FOR CENTER BEARING
SPRING ANCHORS
CURVED TR. BRACE
WITH HORIZ. TRACKS, MUST BE EXACTLY SQUARE WITH JAMB. HORIZ. TR. & CURVE TR. IN ONE PIECE TO HERE
TRACK CLAMP
TOP ROLL ARM
CHECK TRACK SPACING
SPACING TRACK TO TRACK MUST BE SAME THRUOUT. CHECK ESPECIALLY AT BOTTOM CURVE & REAR
E ETC.
D
C
B
A SECTION
2"x6" BUCKS
BOTH SIDE JAMBS AND AT HEADER
CHAIN HOIST ASSEMBLY
NORMALLY FURNISHED ON LEFT SIDE
BOLT SPRING UNIT TO CURVED TRACK BRACE HERE
BOLT GEAR BEARING PLATE TO CURVED TRACK BRACE HERE
SECTIONS IN HEIGHT — PANELS (OR GLAZING) IN WIDTH AS ORDERED
CYLINDER SLIDING BOLT
NOT REQUIRED WITH CHAIN HOIST
STRIKE
ANCHOR BOLTS
COUNTERSINK HEADS IN BUCK. SHOULD BE SPACED APPROXIMATELY SECTION WIDTHS APART TO AVOID TRACK BRACKETS
DOOR BRACES
AT EACH TOP RAIL AND HERE (DOORS OVER 14'-0")
SECTION HINGES
NUMBER VARIES WITH DOOR WIDTH
ROLLER HINGES AT ENDS
BOTTOM CORNER PLATE
BOTTOM CABLE BRACKET
STEP PLATE
9"
TRACK 1½" FL. UNDER DOOR
3 7/16"
ANCHOR BOLT
2"x6" BUCK BY OTHERS
¾"
WOOD STOP
CARRIAGE BOLTS
DOOR HT. FIGURED TO BOTTOM OF RABBET (IF ANY)
CARRY JAMB BUCKS TO CLEARANCE
2"x6" HEADER & JAMB BUCKS WELL ANCHORED TO WALLS FLUSH FACES
HEAD
DOOR
LAG SCREW (OR MACHINE SCREW IN STEEL JAMB, ON SPECIAL ORDER ONLY)
CABLE
DOOR
1¼"
SIDEROOM
5" NORMAL MIN.
10" WITH CHAIN LIFT
20" " ELEC. OPER.
1" 16
BOTTOM CR. PL.
CABLE BRACKET
ROLLER HINGE
ANGLE SILL (IF ANY)
ROLLER TRACK
CAM ROLL " BRACKET
SILL
DETAILS OF JAMB CONSTRUCTION
USING WOOD BUCKS
MAX. ½"
ANGLE SILL (By Others) = DOOR WIDTH + 1"
USING STEEL BUCKS
INSIDE VIEW
NOTE
NO BUCKS, STOPS, LINTELS, ANCHOR-BOLTS, SILL OR JAMB ANGLES REGULARLY FURNISHED BY THE STANLEY WORKS
AT LEAST 5" FACE WIDTH REQUIRED. IF LESS, STEEL JAMBS MUST BE BUILT OUT WITH A WIDER PLATE OR BETTER, STILL, COVERED WITH THE USUAL WOOD BUCK CONSTRUCTION UNLESS SPECIAL ANGLE TRACK SUPPORT IS ORDERED.

No locking bolt furnished with Chain Hoist

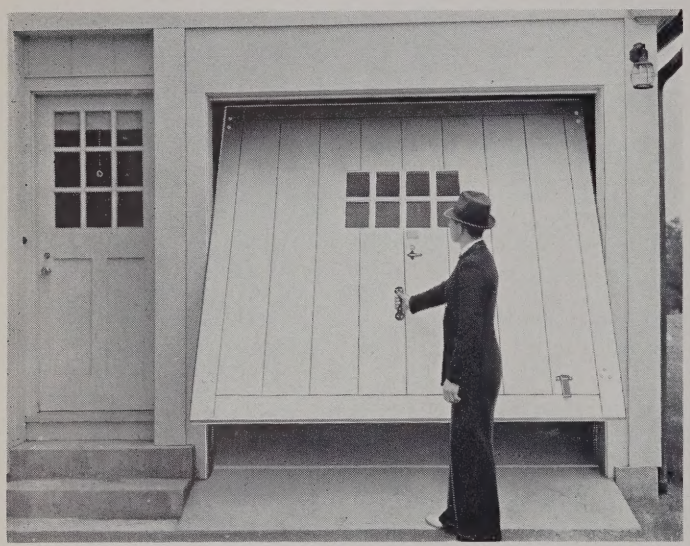
Specify Class Number, Size of Opening, Door Design *(see page 259)*
and Jamb Construction (Wood or Metal)

"Swing-Up" Garage Door Hardware

2730 For Medium Weight Doors

2732 For Light Doors **2734 For Heavy Doors**

General Information

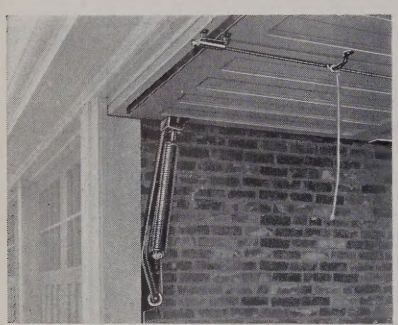


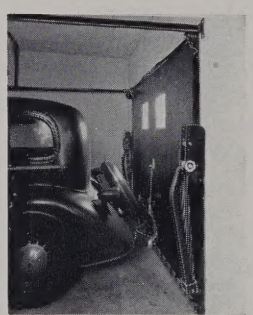
Operates on the pivot principle. A slight pull on the outside handle and the door floats up quietly to the full open position (through the use of large coil springs), where it rests securely on the tracks. Rubber bumpers attached to ends of the track prevent slamming or jarring. The door is opened from the inside by a slight push with the foot on the lower angle iron. A pull on the cord brings the door down to the closed position.

Furnished with a rim cylinder locking bolt with two keys.

Should it be necessary to change the speed of the door it can be accomplished very easily by turning the adjusting bolt located at the bottom of the springs. To adjust, screw bolt down for more tension and up for less. If satisfactory results are not accomplished, then move the spindle to an upper hole in the housing for more speed or to a lower hole for less speed.

Two distinctive and important features of Stanley "Swing-Up" Hardware:





1. Doors are carried completely into the garage.

2. The garage need be no longer than the car. The door swings outward and upward and will clear all makes of cars with the rear bumper resting against the door.

Hinged or folding doors can be readily converted to "Swing-Up" type.

On wide openings, where there is no passage door, a convenient arrangement can be made by using standard narrow doors. One of the middle doors can be made a passage door by hinging it on the outside and not cleating it to the braces.

2730 as regularly furnished is suitable for various widths, heights and thicknesses of doors not to exceed 500 pounds per opening (see page 290).

2732 is for light doors from 7′ 0″ to 8′ 0″ in width, 6′ 0″ to 7′ 0″ and 7′ 0″ to 8′ 0″ in height, up to 1¾″ in thickness, not to exceed 200 pounds per opening (see page 292).

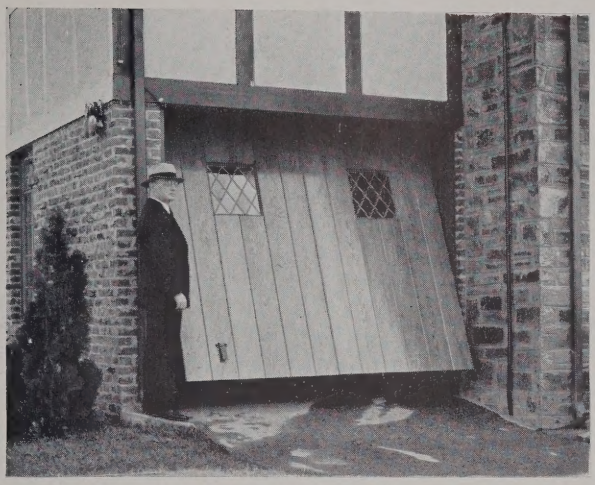
2734 heavy duty, as regularly furnished, is suitable for various widths, heights and thicknesses of doors not to exceed 750 pounds per opening (see page 294).

Furnished in Japanned finish, with spindles, adjusting bolts and handle of locking bolt Cadmium Plated.

"Swing-Up" Garage Door Hardware

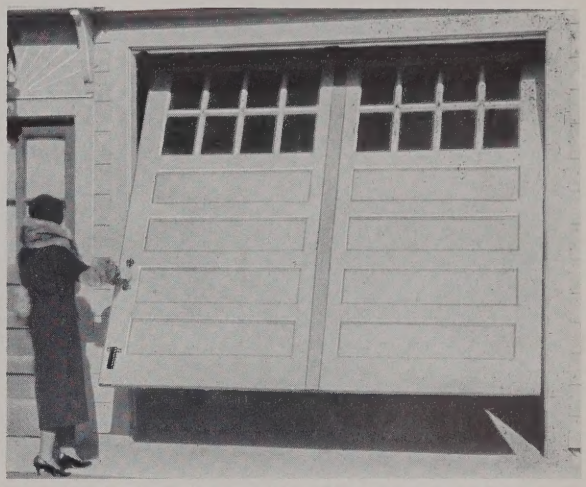
2730

V-Joint Door



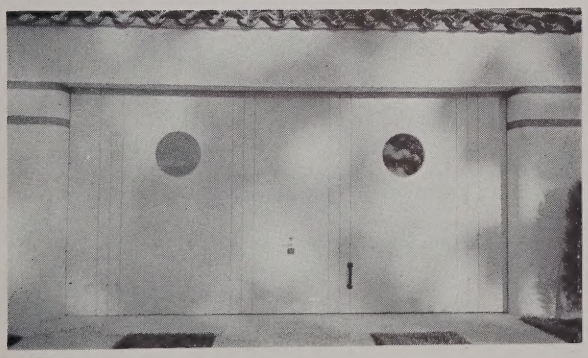
Ideal garage equipment for the better type of homes

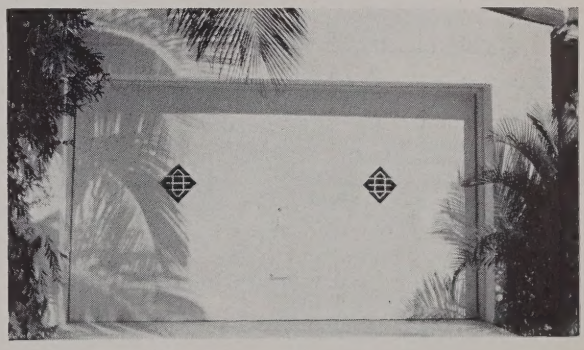
Converted

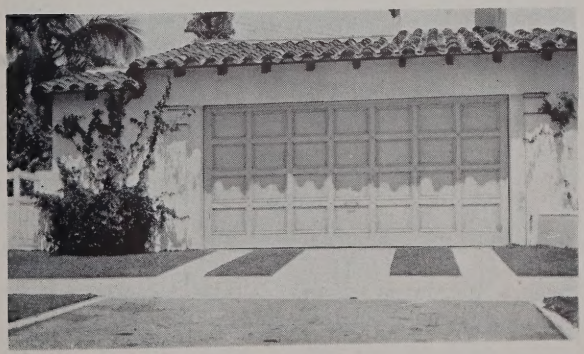


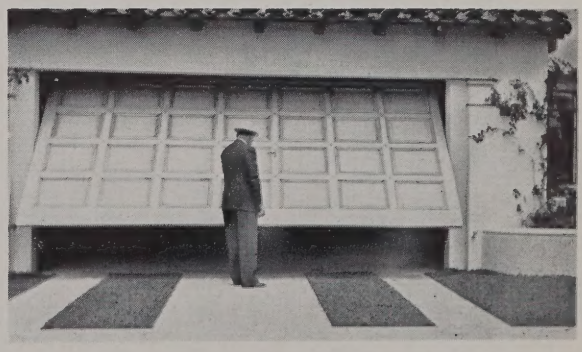
Hinged doors converted into an upward acting door

A few unusual treatments—doors of special design with Stanley "Swing-Up" Hardware





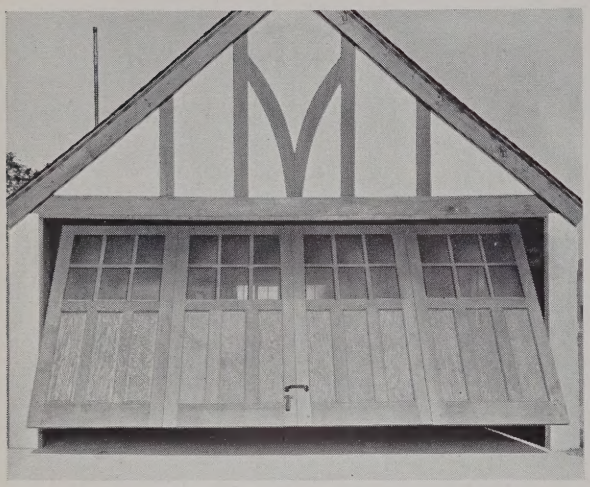


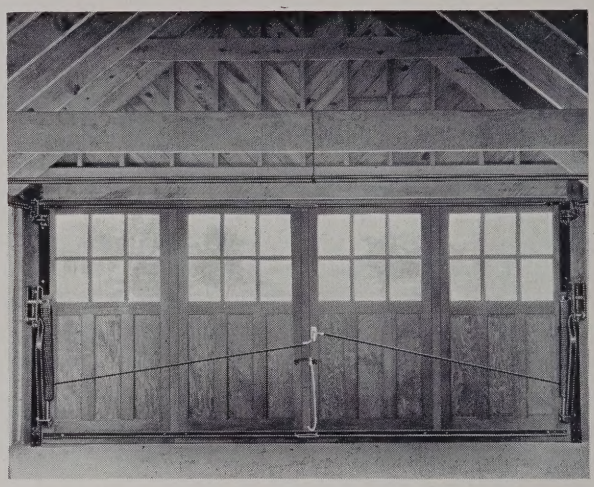


"Swing-Up" Garage Door Hardware

2730

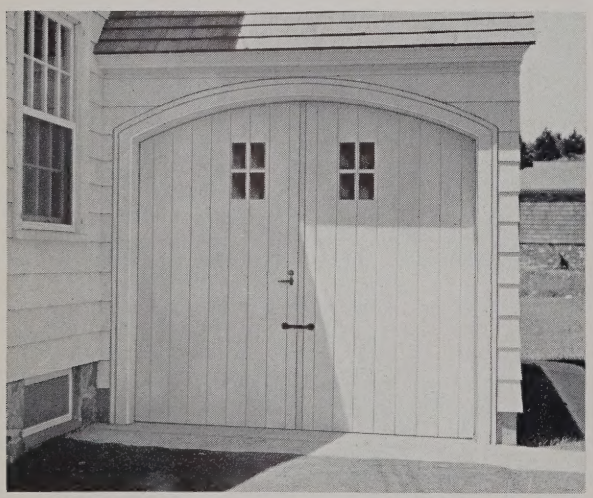
Two-Car Opening

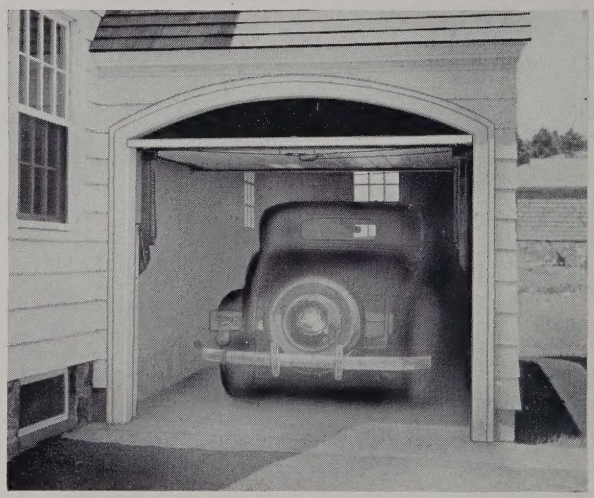




Showing a two-car installation, using four standard doors. The hardware (doors by others) includes the complete equipment for a single, easily operated door, without the necessity of a center post. Heavy turnbuckle truss braces, top and bottom, fasten the four doors together into a one-piece unit, and prevent doors from sagging.

For Curved Top Openings



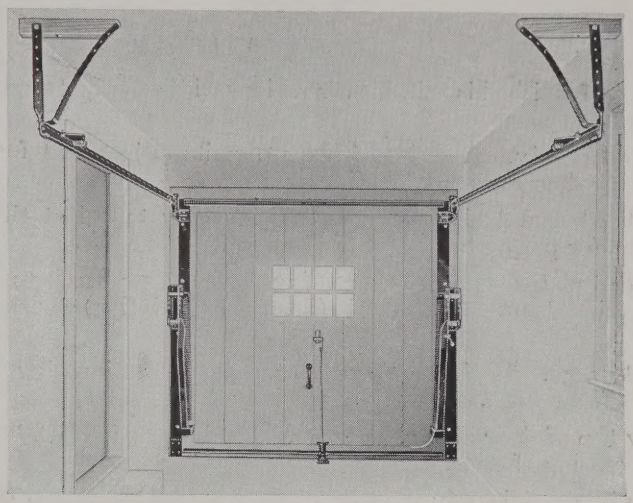


The doors should be made square top the same as for a square opening. As the door operates through the opening, the position when open is determined by the spring line (the lowest point of the curve) of the opening. The opening should be designed so that the spring line is of sufficient height to provide ample clearance for the height of the car, plus 5″ for the projection in the opening of the door and hardware.

When ordering it is necessary to specify width of the opening, height (to highest point of opening) and distance from finished floor to spring line. Stock sets are not suitable for curved top openings.

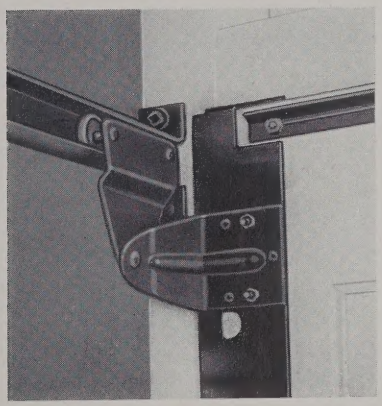
"Swing-Up" Garage Door Hardware

2730 Special Features



Operated by powerful heat-treated and oil-tempered coil springs, one on each side of the door. Heavy angle iron lifting arms, actuated by the springs, propel the door upward. The housings are made of extra heavy wrought steel, insuring a great factor of safety. This is essential as they are subject to the strain of carrying the weight of the door. A series of holes permits adjustment for various weights of doors.

Hanger Bracket

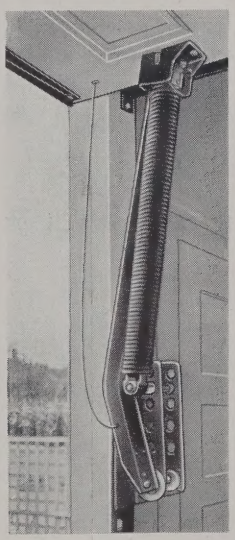


A specially designed hanger bracket carries the top of the door to the open position, the bottom being swung up by the angle iron arms propelled by the springs. Ball bearing wheels insure easy, smooth rolling in the track. The bracket is so designed as to allow for any shrinkage or swelling of the door.

The track is made of 13-gauge wrought steel, so designed as to prevent the rollers from jumping out.

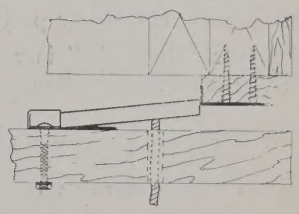
The upper heavy steel plates attached to the hangers and door overlap the jambs, and the lower plates attached to the housing and jambs overlap the door, assuring a weather-tite installation.

Housing Arm and Spring



Door in open position

Safety Device



Safety device engaging with the strike attached to the header, holds the door securely in open position, insuring against accidental closing. A pull on the cord releases it.

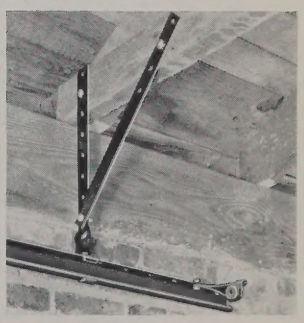
Booster Springs

Recommended for wide and heavy doors to facilitate easy opening and closing. Furnished on order.

Track Braces

The track braces hold the track rigid. Drilled with holes at intervals, permitting easy mounting of the track in garages of various heights.

Rubber bumpers mounted at the rear ends of the track check the momentum of the door and absorb the shock.



"Swing-Up" Garage Door Hardware

2730

Specifications

The hardware as regularly furnished is suitable for various widths, heights and thicknesses of doors not to exceed 500 pounds per opening.

Housings: Very heavy and sturdy. A series of holes permits adjustment for various weights of doors. The arms which swing the door are made of 2″ angle iron.

Springs: Powerful, heat-treated and oil-tempered. Thoroughly tested at the factory. Fitted with an adjusting bolt at bottom for proper balancing of the door.

Weatherstrips: Heavy steel plates attached to housings and hanger brackets offer protection against the weather, and also act as side stops. A steel strip (primed for painting) covers and strengthens the outside joint between the doors.

Track: Wrought steel, 13-gauge. Designed to prevent rollers from jumping out of the track. Securely lagged to wood bucks at front and suspended by specially designed braces at rear.

Hanger Brackets: Carry top of door along the track. Equipped with ball bearing wheels. Designed to allow for shrinkage or swelling of door.

Braces: Turnbuckle truss braces join any number of doors together at top and bottom, making a rigid one-piece door, and prevent warping. Adjustable braces for doors 10′ to 16′ furnished on order.

Locking Bolt: Furnished complete with a rim cylinder with two keys; securely locks the door from the center. For openings 10′ and wider the bolt locks door on both sides.

Safety Latch: Holds door securely in open position, insuring against accidental closing. Released by pull on the same cord used in closing the door.

Pulls: Two extra heavy pulls are furnished, one for each side of the door.

Headroom: Only 2¼″ is required above top of door. The headroom should be maintained the full length of the track, which length equals the height of the door plus 6″.

Made for the following sizes and weights of doors:

Door Width	Door Height	Weight of Doors (Lbs.)	Weight Per Set (Lbs.)
	Stock Sizes		
8′0″ to 8′5″	6′6″ to 7′0″	150 to 250	200
	7′0″ to 8′0″	150 to 250	202
	Special Sizes		
7′0″ to 7′11″	* 7′0″ to 7′6″	200 to 500	252
	* 7′6″ to 8′0″	235 to 475	252
	* 8′0″ to 8′6″	220 to 450	252
	8′6″ to 9′0″	205 to 425	252
	9′0″ to 9′6″	190 to 400	252
	9′6″ to 10′0″	175 to 375	252
8′0″ to 8′11″	* 7′0″ to 7′6″	250 to 500	350
	* 7′6″ to 8′0″	235 to 475	350
	* 8′0″ to 8′6″	220 to 450	350
	8′6″ to 9′0″	205 to 425	350
	9′0″ to 9′6″	190 to 400	350
	9′6″ to 10′0″	175 to 375	350
9′0″ to 9′11″	* 7′0″ to 7′6″	250 to 500	350
	* 7′6″ to 8′0″	235 to 475	350
	* 8′0″ to 8′6″	220 to 450	350
	8′6″ to 9′0″	205 to 425	350
	9′0″ to 9′6″	190 to 400	350
	9′6″ to 10′0″	175 to 375	350

Door Width	Door Height	Weight of Doors (Lbs.)	Weight Per Set (Lbs.)
	Special Sizes		
10′0″ to 10′11″	* 7′0″ to 7′6″	235 to 485	360
	* 7′6″ to 8′0″	220 to 460	360
	* 8′0″ to 8′6″	205 to 435	360
	8′6″ to 9′0″	190 to 410	360
	9′0″ to 9′6″	175 to 385	360
	9′6″ to 10′0″	160 to 360	360
11′0″ to 11′11″	* 7′0″ to 7′6″	230 to 480	378
	* 7′6″ to 8′0″	215 to 455	378
	* 8′0″ to 8′6″	200 to 430	378
	8′6″ to 9′0″	185 to 405	378
	9′0″ to 9′6″	170 to 380	378
	9′6″ to 10′0″	155 to 355	378
12′0″ to 16′0″	* 7′0″ to 7′6″	200 to 450	385
	* 7′6″ to 8′0″	185 to 420	385
	8′0″ to 8′6″	170 to 390	385
	8′6″ to 9′0″	155 to 360	385

* On these sizes the tracks and housings are mounted on steel angles and heavier springs are used to properly balance the weight of the doors. The housing steel angles also act as side stops.

One complete set in a case with instructions for installing. Furnished in Japanned finish, with spindles, adjusting bolts and handle of locking bolt Cadmium Plated.

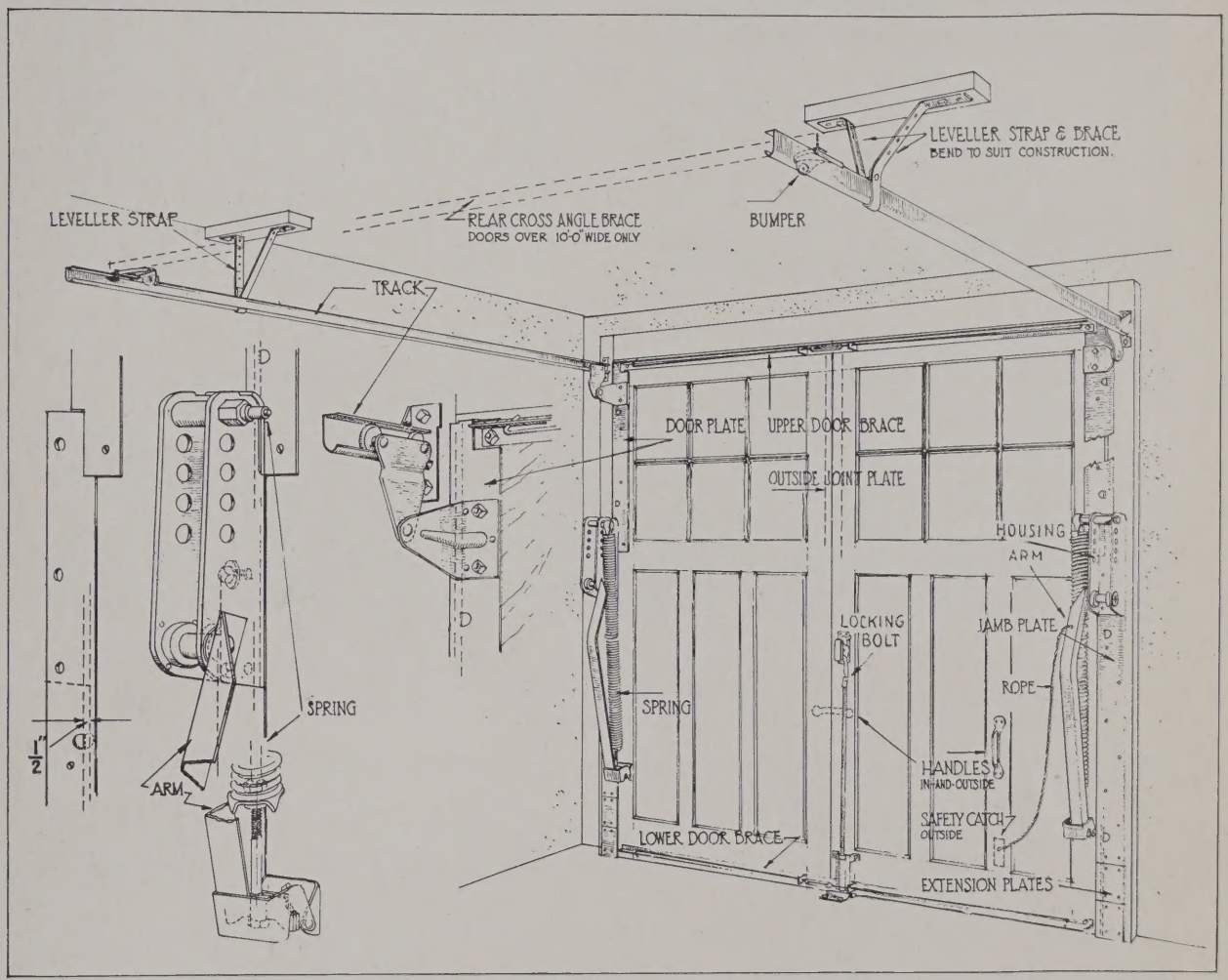
Specify Class Number, Size of Opening, Weight and Thickness of Door

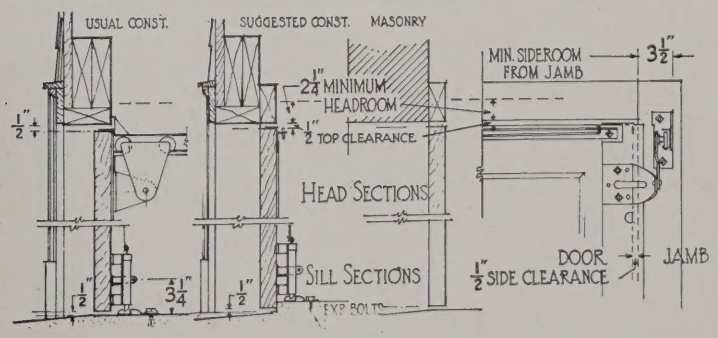
If door is made in more than one section, state number of sections

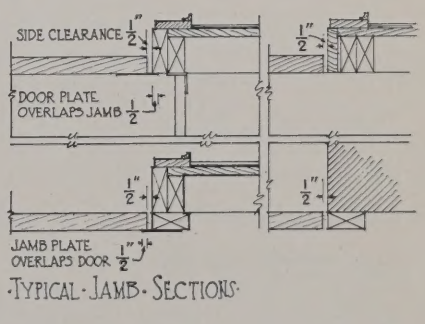
"Swing-Up" Garage Door Hardware

2730

Details





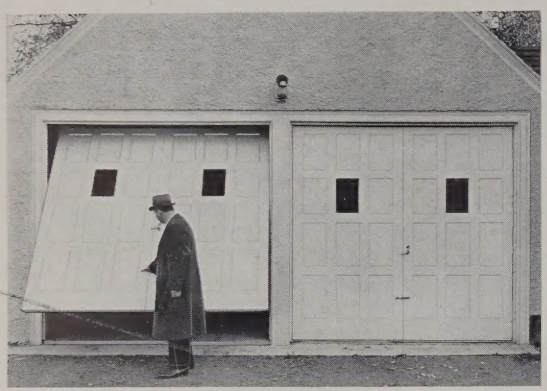


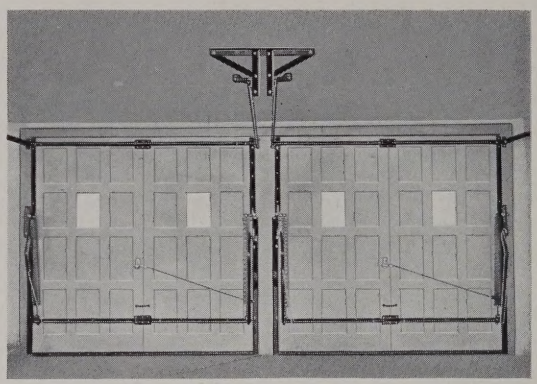
·TYPICAL·JAMB·SECTIONS·

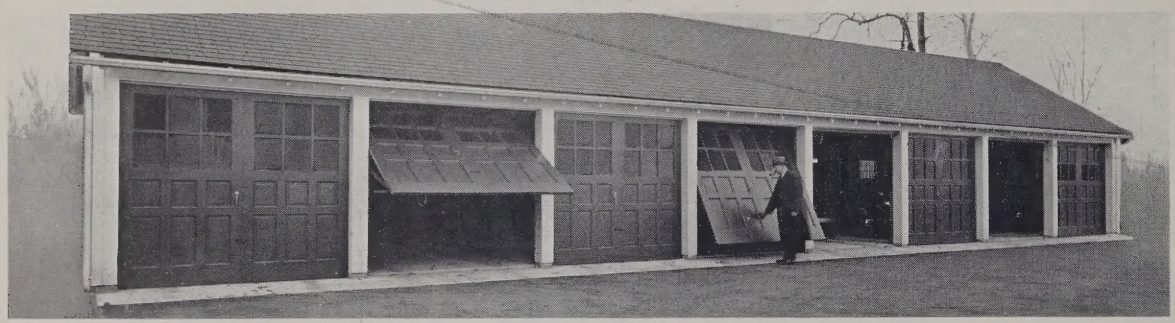
"Swing-Up" Garage Door Hardware

2732

For doors 7′ 0″ to 8′ 0″ in width and 7′ 0″ to 8′ 0″ in height, weighing up to 200 lbs.
For doors 7′ 0″ to 8′ 0″ in width and 6′ 0″ to 7′ 0″ in height, weighing up to 200 lbs.







Operated by heavy heat-treated and oil-tempered coil springs, one on each side of the door. The angle iron lifting arms, actuated by the springs, propel the door upward. The springs are fitted with an adjusting bolt at the bottom for proper balancing of the door.

The housings are made of heavy wrought steel. A series of holes permits adjustment for various weights of doors up to 200 pounds.

The track is made of 13-gauge wrought steel, so designed as to prevent the rollers from jumping out.

Steel plates attached to housings and hanger brackets offer protection against the weather and also act as side stops.

The upper and lower door braces are adjustable for doors from 7′ 0″ to 8′ 0″ in width.

Furnished with a rim cylinder locking bolt (with two keys) operated in the center.

Adapted for light doors up to 1¾″ in thickness (as two standard 4′ x 8′ or three 2′ 8″ x 8′ doors) which are cleated together with two angle iron braces. A wood strip, ½″ x 3″, is recommended over the joint of the doors on the outside, although not absolutely necessary.

Headroom: Only 2″ is required above top of door. The headroom should be maintained the full length of the track, which length equals the height of the door plus 6″. Doors should be ¾″ less in height and width than the opening to allow ⅜″ clearance at top, sides and bottom.

One complete set in a crate with instructions for installing. Gross weight, 150 lbs.

Furnished in Japanned finish, with spindles, adjusting bolts and handle of locking bolt Cadmium Plated.

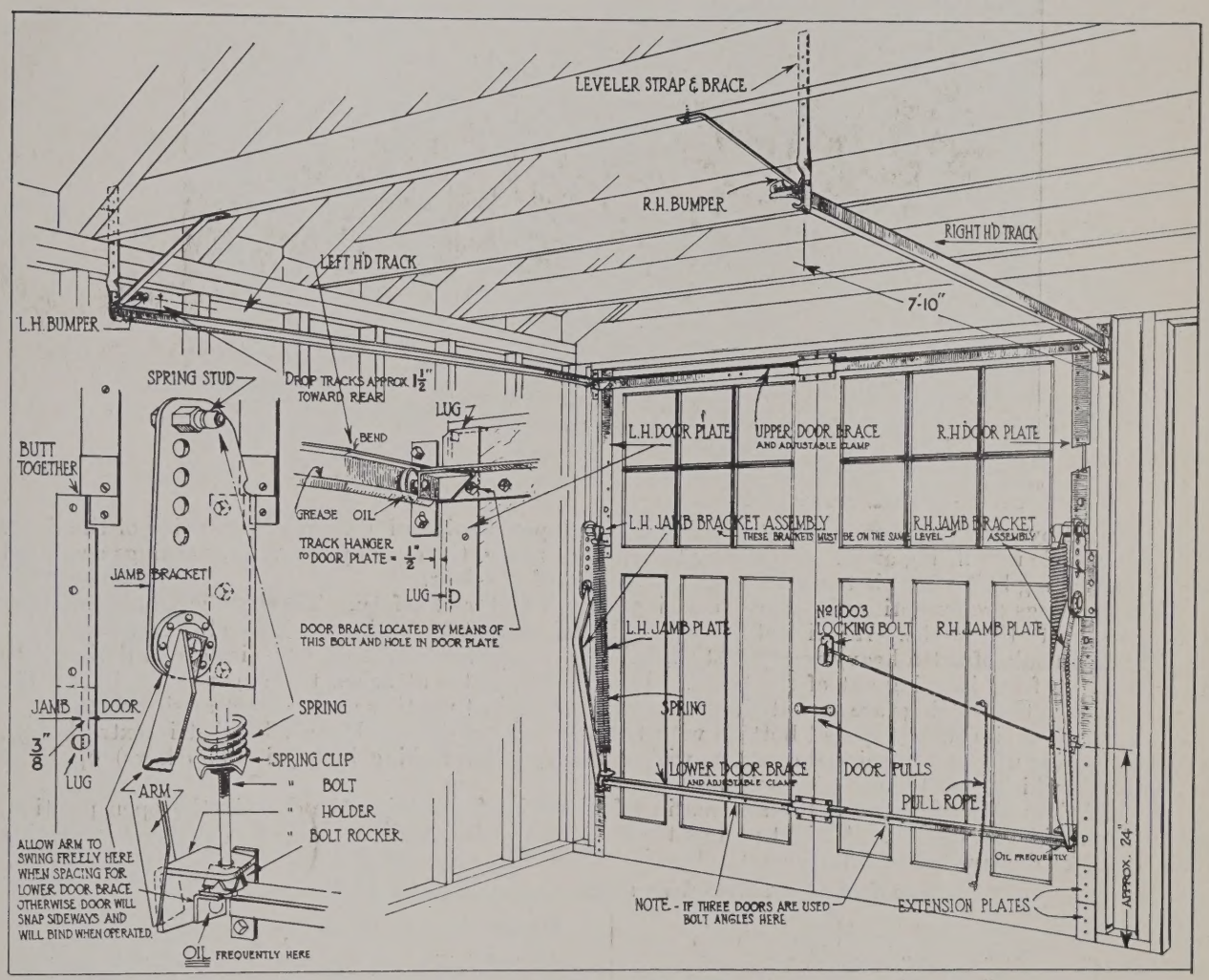
Specify Class Number and Size of Opening

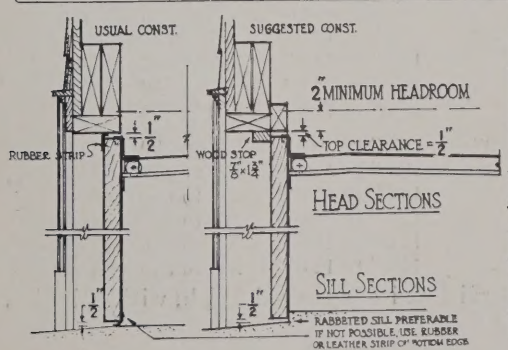
If no size is specified, set for 7′ to 8′ in height is furnished

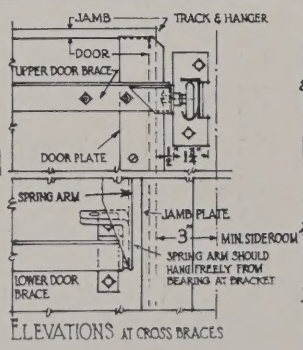
"Swing-Up" Garage Door Hardware

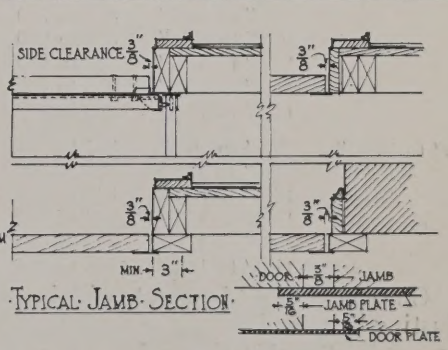
2732

Details









"Swing-Up" Garage Door Hardware

2734 (Heavy Duty)

For Commercial Garages, Markets and Industrial Buildings

"Swing-Up" doors, size 16′ x 10′6″

Operated by extremely heavy heat-treated and oil-tempered coil springs, one on each side of the door. The heavy angle iron lifting arms, actuated by the springs, propel the door upward. The springs are fitted with an adjusting bolt at the bottom for proper balancing of the door.

The housings are exceptionally heavy, insuring a great factor of safety. They are mounted on angle irons attached to the jambs. A series of holes permits adjustment for various weights of doors.

Track is made of extra heavy wrought steel, $\frac{1}{8}$″ in thickness, mounted on angle irons and designed to prevent rollers from jumping out of the track. Heavy steel plates attached to hanger brackets and the angles on which the housings are mounted, offer protection against weather and also act as side stops.

Doors are equipped at top and bottom with turnbuckle truss-rods. Hanger bracket is extra heavy, with ball bearing wheels. Furnished complete with a rim cylinder locking bolt (with two keys) operated in the center, which locks the door on each side.

One of the unique features is the automatic safety device for holding the door in the open position, preventing accidental closing. A slight pull on the cord releases the device and a heavy compression spring starts the door downward, enabling even the heaviest door to be easily operated.

Made for the following sizes and weights of doors:

Door Width	Door Height	Weight of Doors (Lbs.)	Weight Per Set (Lbs.)	Door Width	Door Height	Weight of Doors (Lbs.)	Weight Per Set (Lbs.)
9′0″ to 9′11″	9′0″ to 9′6″	400 to 750	425	11′0″ to 11′11″	9′0″ to 9′6″	380 to 730	440
	9′6″ to 10′0″	380 to 720	425		9′6″ to 10′0″	360 to 700	440
	10′0″ to 10′6″	360 to 690	425		10′0″ to 10′6″	340 to 670	440
	10′6″ to 11′0″	340 to 660	425		10′6″ to 11′0″	320 to 640	440
	11′0″ to 11′6″	320 to 630	425		11′0″ to 11′6″	300 to 610	440
	11′6″ to 12′0″	300 to 600	425		11′6″ to 12′0″	280 to 580	440
10′0″ to 10′11″	9′0″ to 9′6″	385 to 735	425	12′0″ to 16′0″	9′0″ to 9′6″	350 to 700	440
	9′6″ to 10′0″	365 to 705	425		9′6″ to 10′0″	330 to 670	442
	10′0″ to 10′6″	345 to 675	425		10′0″ to 10′6″	310 to 640	448
	10′6″ to 11′0″	325 to 645	425		10′6″ to 11′0″	290 to 610	452
	11′0″ to 11′6″	305 to 615	425		11′0″ to 11′6″	270 to 580	456
	11′6″ to 12′0″	285 to 585	425		11′6″ to 12′0″	250 to 550	458

One complete set in a crate with instructions for installing. Furnished in Japanned finish, with spindles, adjusting bolts and handle of locking bolt Cadmium Plated.

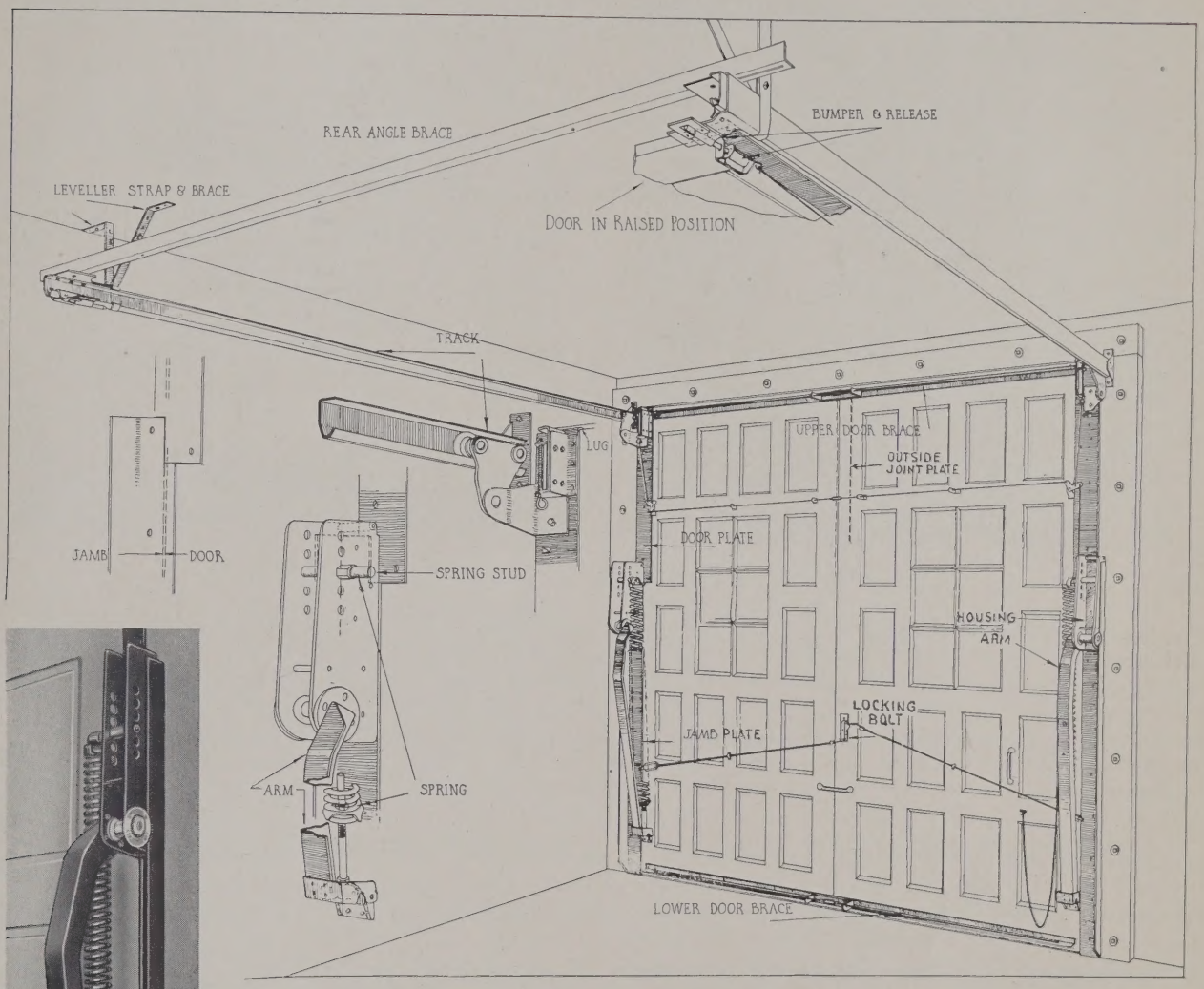
Specify Class Number, Size of Opening, Weight and Thickness of Door

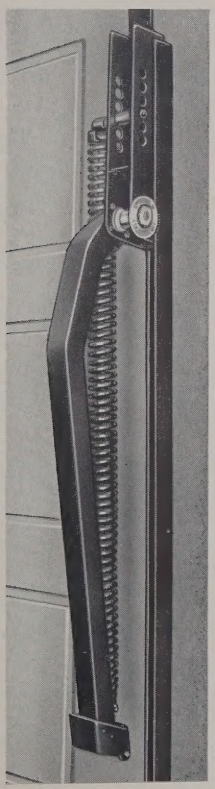
If door is made in more than one section, state number of sections

"Swing-Up" Garage Door Hardware

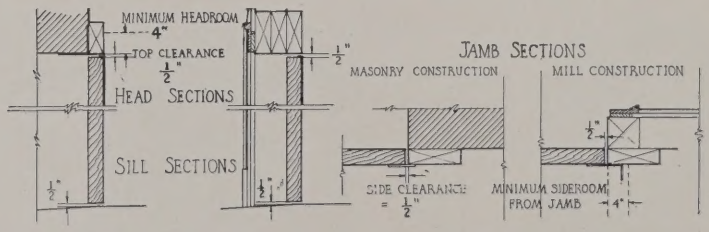
2734 (Heavy Duty)

Details

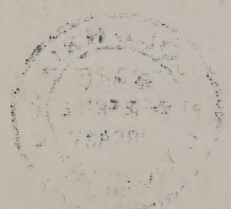




Showing the massive construction of the arm, spring and housing



Headroom required above top of door is 4″. The headroom should be maintained the full length of the track, which length equals the height of the door plus 6″. Doors should be 1″ less in height and width than the opening to allow ½″ clearance at top, sides and bottom.



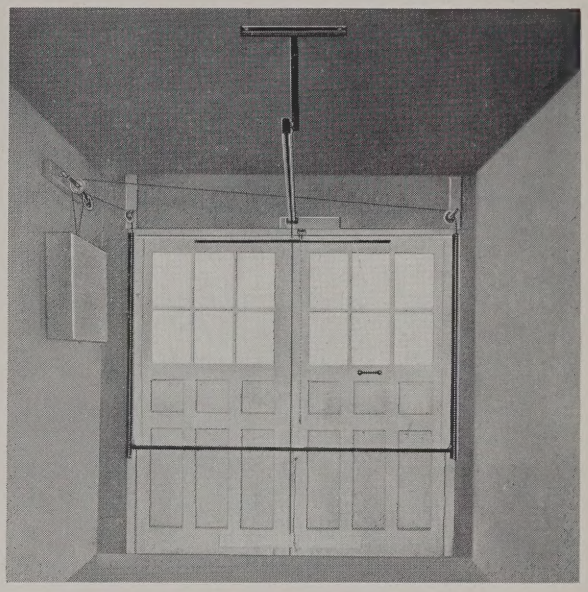
Printed in U.S.A.

"Slide-Up" Garage Door Hardware

2738 Hardware Only

For doors up to 8′ x 8′ inclusive, weighing not over 200 lbs.

Outside View



Inside View

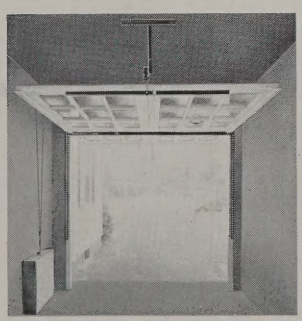
For residential garage doors, not exceeding 8′ x 8′, weighing not over 200 pounds. Doors can be one piece or in two or three sections, new or old. The hardware converts ordinary hinged or sliding doors into a smooth operating, one-piece upward acting door, easy to open or close under all weather conditions. Doors fit snugly all around, completely sealing the opening when closed. Easily installed.

Hardware includes all necessary parts, with locking device designed for use with a padlock. Doors are counterbalanced by a weight box regularly located at side wall, or with special length cables it can be placed at rear of garage. The weight box is the shipping container, and is filled with sand or gravel at time of installation.

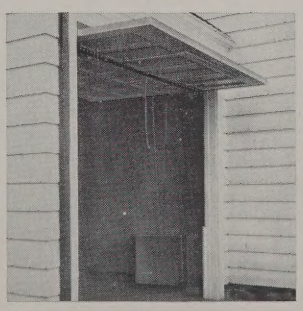
Connection between door and weight box is by means of aircraft cables, operating over roller bearing pulleys.

A minimum headroom of 7½″ is required, with minimum sideroom of 8″ on side with weight box and 2″ on opposite side.

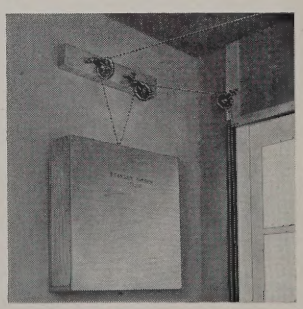
Miscellaneous hardware packed for shipment in weight box, with tracks and angle braces bundled separately. Weight complete, 66 pounds. Full instructions included.



Inside View—Door Open



Showing Position of Door when Open



Close-Up of Weight Box

(See detail on reverse side)

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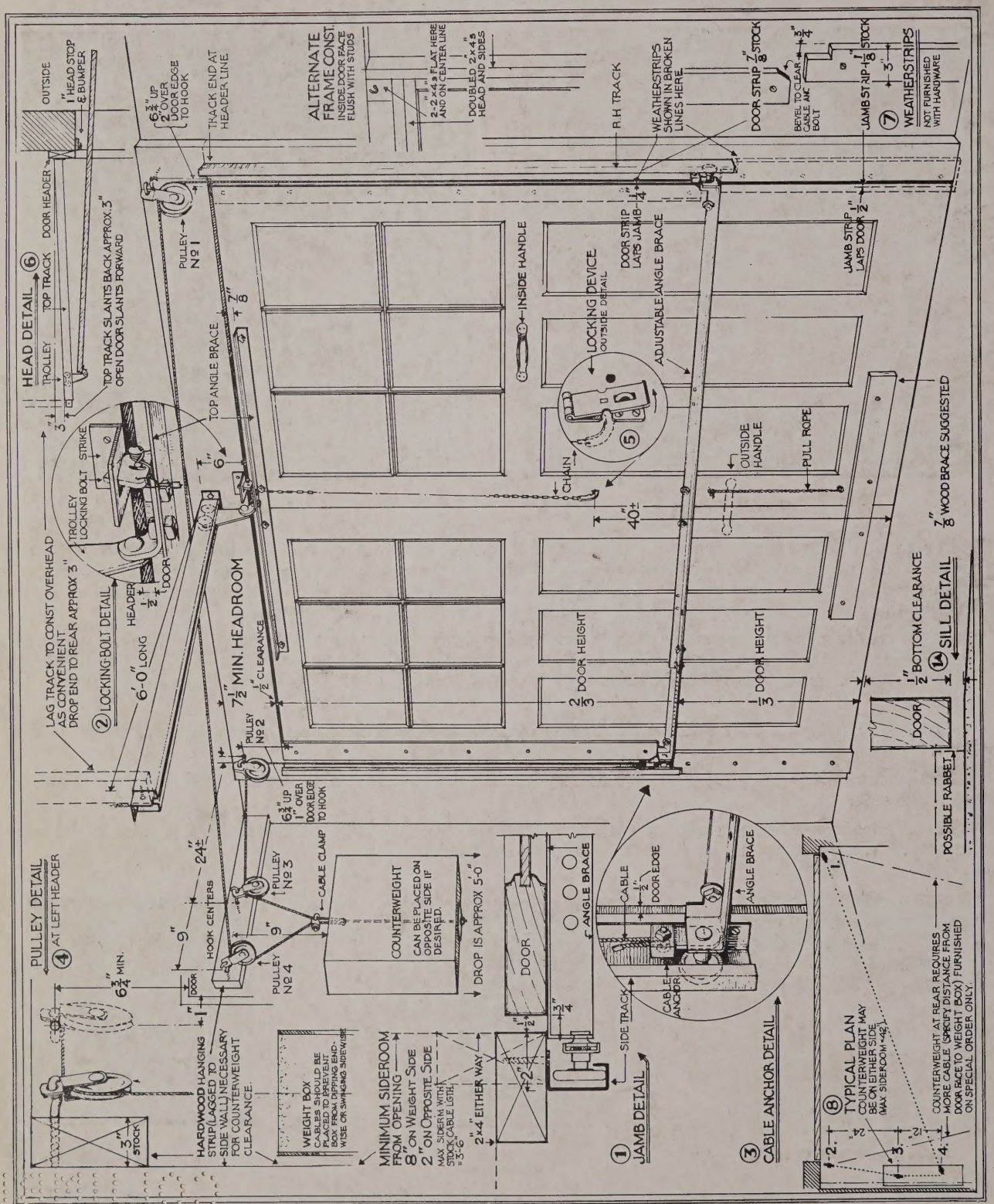
COLUMBIA WARE MEMORIAL LIBRARY

"Slide-Up" Garage Door Hardware

2738 Hardware Only

Details